



VALVE DATA MANUAL



AVOCET
ESTD 1921

AVO LTD

AVOCET HOUSE

92-96 VAUXHALL BRIDGE ROAD
LONDON, S.W.1 ENGLAND

**PLEASE RETURN THIS POSTCARD AS SOON AS YOU
RECEIVE THIS PUBLICATION**

IMPORTANT

New Data is continually becoming available. In order that your information may be kept fully up-to-date, please complete and return this post card. You will then be advised when a new edition of this Manual is published.

**AVO LTD., Avocet House,
92-96, Vauxhall Bridge Road, London, S.W.1
VICtoria 3404 (12 lines)**

Please inform me/us immediately a further edition of this Manual becomes available.

Name
(Please be brief)

For the Attention of

Address

Please state the serial number of your instrument which appears on either the scale plate or an identification label.

"AVO" Valve Tester Serial No.

"AVO" Valve Characteristic Meter Serial No.

"AVO" Valve Tester Type 160 Serial No.

"AVO" Valve Data Manual

Keeping a manual of this type fully corrected and up-to-date is, as you will appreciate, a complex and exacting task.

If you have any suggestions to make regarding this publication or wish to contribute data or observations which may be to our mutual benefit, we will be very pleased to receive your remarks set out on the postcard below.

NAME AND
ADDRESS
OF SENDER

THE
AVO
VALVE DATA
MANUAL

FIFTEENTH EDITION, 1962

EDITOR: C. E. BULL



Compiled and Published by

AVO LTD.

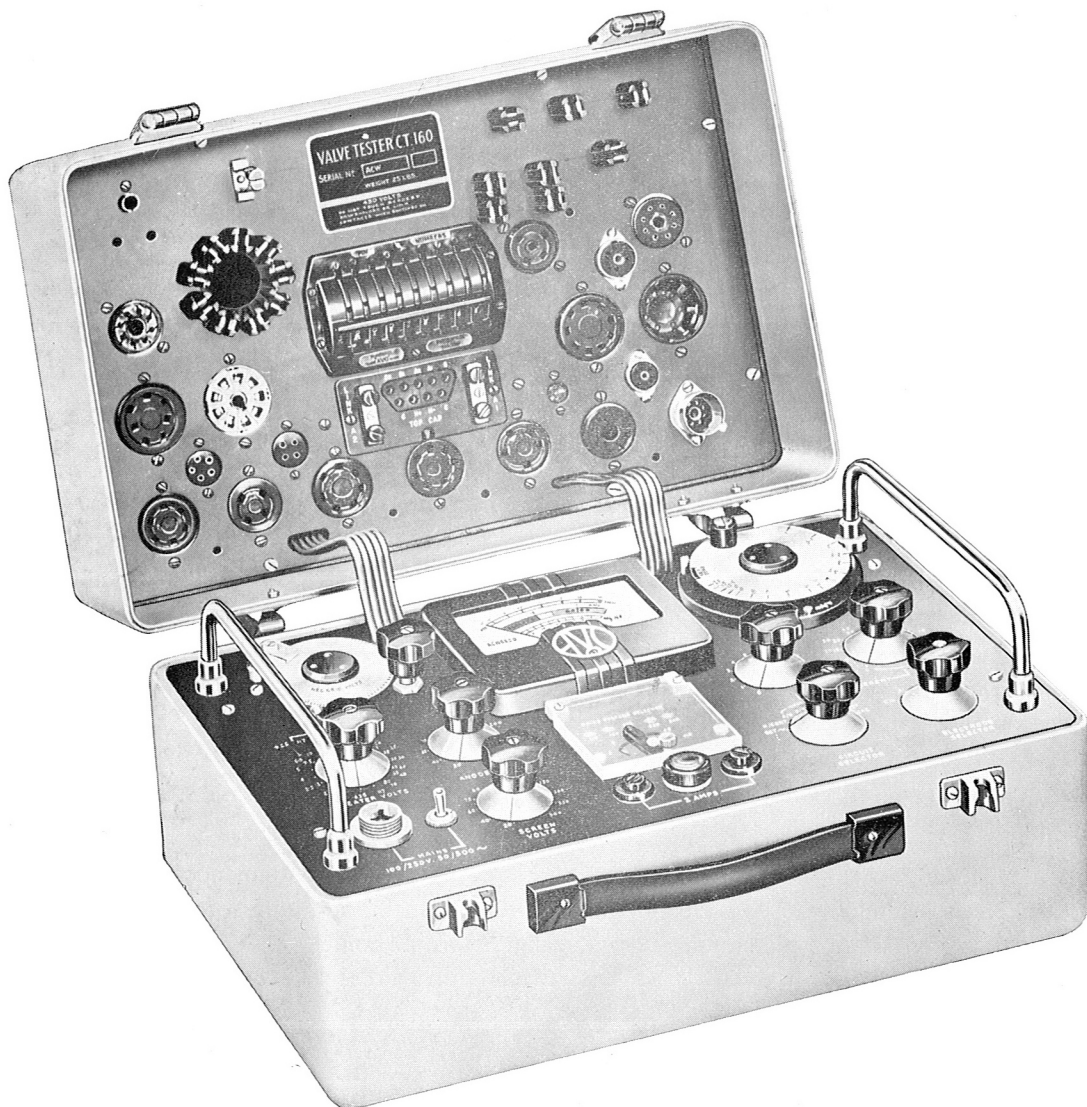
(A MEMBER OF THE METAL INDUSTRIES GROUP OF COMPANIES)

"AVOCET HOUSE," 92-96 VAUXHALL BRIDGE ROAD, LONDON, S.W.1

Telephone: VICtoria 3404 (12 lines)



THE AVO VALVE CHARACTERISTIC METER Mk. IV



THE AVO VALVE TESTER TYPE 160

FOREWORD

This data manual is primarily intended for use with the "AVO" Valve Characteristic Meter, the "AVO" Valve Tester Type 160, and "AVO" Valve Tester, but once the Selector Switch code is understood, the manual also forms a quick and convenient guide for general use.

The Instruction Book which accompanies the instrument should be thoroughly studied before the data contained in this manual is used.

It is our intention to issue revised copies of this manual from time to time and dates of publication will be given in our advertisements in the Trade Press.

The return of the enclosed postcard will enable us to inform you when new issues become available.

WATCH OUR ADVERTISEMENTS FOR FURTHER ANNOUNCEMENTS.

IMPORTANT—In the interests of accuracy, it is not recommended that these instruments should be used with a constant voltage transformer, unless it is known that the 3rd and 5th harmonic content is of a negligible proportion.

Contents

Foreword	3
Diagram of Standard Pin Connections	7
Diagram of Special Valve Holders fitted to Valve Tester Type 160 only	8
Commercial Valve Index and Cross Reference to Service Types	1
Service Valve Index and Cross Reference to Commercial Types	88
American Army V.T. Series Index and Cross Reference to British Service Types ..	108
British Post Office V.T. Series Index and Cross Reference to British Service Types	110
B.V.A. Utility Equivalents	111
Test Data for Receiving and Small Transmitting Valves	1-122
Additional Information	122-150
Data for Tuning Indicators (Magic Eyes)	Appendix I
Test Data for High Voltage Rectifiers	Appendix II
Test Data for use with "AVO " Valve Tester Type 160 only	Appendix III
Test Data for Russian Valves	Appendix IV
Stop Press	157

Accessories.

If the valve base required does not appear on the Valve Holder Panel it is necessary to use an adaptor which plugs into an existing valve holder. These are supplied as follows:

- | | |
|---------------------------------------|--|
| No. 1. B7G and B8A. | No. 7. B9A. |
| No. 2. B9G. | No. 8. Continental 8 pin (F8). |
| No. 3. B8B. | No. 9. B7A. |
| No. 4. B3G. Hivac D.A.4
and 5 pin. | No. 9/1 B7A for use with
Valve Tester Type 160. |
| No. 5. Blank. | No. 10 5AA & 7AA (Acorn Valves). |
| No. 6. Sm7 (6A7 Base). | No. 11 B5A. |

Whilst every care has been taken in the preparation of this manual to ensure that the data given is correct, the Company cannot accept any responsibility for damage caused to a valve under test, or the instrument, due to the inclusion of incorrect information.

NOTES

TESTING WIRE ENDED (FLYING LEAD) VALVES. Wire-ended (flying lead) valves may be tested by inserting individual wires into appropriate electrode connections of a suitable valve holder in correct sequence.

When using the AVO V.C.M. Mk. IV, the setting of the selector switch may be ignored, the leads being inserted into appropriate sockets of the top cap connector panel.

BACK EMISSION. Alternative test figures are given for use when valve shows signs of back emission from anode to G3. This phenomenon can be recognised by the anode current apparently decreasing as the valve heats up.

GRID BIAS. When using AVO Characteristic Meter Marks I and II, to check valves requiring a bias of less than 1 volt, erroneous readings may be obtained due to the valve drawing grid current, which has the effect of reducing the grid bias voltage thus producing low mutual conductance readings. Users of these instruments are, therefore, advised to use the alternative data which has been supplied wherever possible.

INTERNAL CONNECTION (*) When the symbol * appears among the Selector Switch set up figures, it indicates that an unknown electrode may be connected to this pin internally. To obtain the complete Selector Switch coding, test with an ohmmeter between pin marked * and all others. (The ohmmeter should be on a sufficiently low range to discriminate between a dead short and filament resistance). Dependant upon the electrode to which this pin is internally connected the correct code can be set up and normal test procedure followed.

Where the pin marked *	is O.C. to all others	Set Roller to	0
" "	" "	connected to Cathode	1
" "	" "	Heater—	2
" "	" "	Heater+	3
" "	" "	Grid	4
" "	" "	Screen	5
" "	" "	Anode 1	6
" "	" "	Anode 2	7
" "	" "	Diode Anode 1	8
" "	" "	Diode Anode 2	9

INSULATION TESTING. The manufacturers of certain specialised types of valve e.g. VHF types, thyratrons etc., limit the maximum applied inter-electrode voltage to very low values, these restrictions apply with the valve either hot or cold.

In the Avo Valve Characteristic Meter, the peak value of the applied insulation potential is 150V, whilst this is perfectly satisfactory for the vast majority of valves listed, users are advised to check with the manufacturers' data sheets when special types are to be tested.

The majority of valves listed in the Avo Valve Data Manual are not subject to this limitation, but where valve data is not given, care should be exercised.

LOW ANODE IMPEDANCE TRIODES. It has come to our notice that a number of valves included in the Valve Data Manual which, when tested, produce low anode currents, a typical example being the 6080 valve.

These valves have a moderately high mutual conductance coupled with a very low R_a . In the case of the 6080 this is in the order of 250 ohms. Ideally, when testing this type of valve, the source impedance should be negligible. Unfortunately, with the Valve Characteristic Meter, the source impedance is in the order of 200 ohms, most of which is due to the anode current measuring circuit. Under normal conditions this impedance is negligible when compared with the anode impedance of the valve under test ; when these low impedance types are being tested, the valve is effectively being tested under dynamic conditions. Whilst we appreciate the difficulties with this drawback, we feel it is still acceptable, bearing in mind that the instrument will adequately test some 5000 ordinary valve types.

One suggestion for easing this difficulty is that a valve is selected which, when tested under dc conditions, meets the manufacturers' specifications. This valve should then be used under the same conditions in the Valve Characteristic Meter and the variation in anode currents and mutual conductance should then be noted, and used as a guide when testing valves of the same type.

Since only manufacturers' data is included in this publication anode current and mutual conductance figures have been omitted.

ABBREVIATIONS

D, DD, DDD.-Diodes and multiple diodes.

DT, DDT, DP, DDP.-Valve with another electrode assembly in addition to the diode.

H.- Heptode or Hexode.

N.- Nonode.

O.- Octode.

P.- Pentode or Tetrode, PP-Double Pentode or Double Tetrode.

T.- Triode, TT.-Double Triode, TH.-Triode Heptode, or Triode Hexode.

TP.- Triode Pentode.

R.- Rectifier, RR.- Full-wave Rectifier.

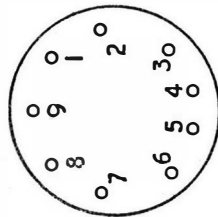
TI.- Tuning Indicator (magic eye).

CCR.- Cold Cathode Rectifier.

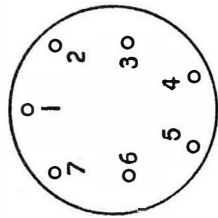
‡ Appearing among ROLLER SELECTOR switch numbers, refers to third diodes in triple diodes. Refer to Working Instructions, Chapter 3, Section headed "Instruction for Testing Specific Valve Types" for full test procedure.

() Where brackets appear around stated heater voltage thus (5) it indicates that heater voltage given in Data columns has been uprated to allow for voltage drop at valve base, due to higher current taken by the particular valve.

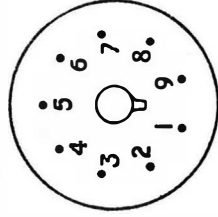
DIAGRAM OF STANDARD PIN CONNECTIONS *(viewed from underside of base)*



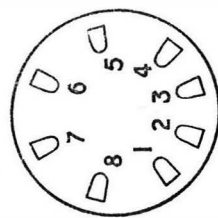
BRITISH NINE PIN (B9)



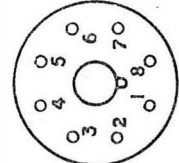
BRITISH SEVEN PIN (B7)



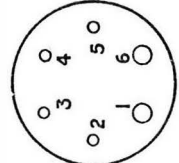
B9G



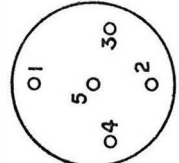
'P' TYPE BASE (8SC)



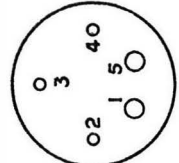
INTERNATIONAL OCTAL (AO8)



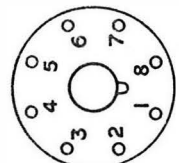
AMERICAN SIX PIN (UX6)



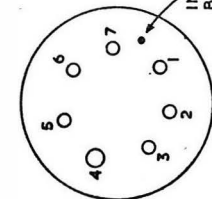
BRITISH 4/5 PIN (B5&B4)



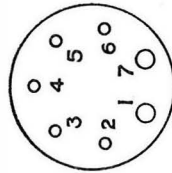
AMERICAN FIVE PIN (UX5)



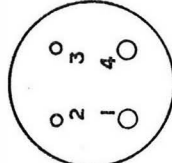
MAZDA OCTAL (MO8)



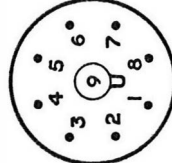
B7A



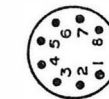
AMERICAN SMALL SEVEN PIN (SM7)



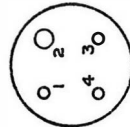
AMERICAN FOUR PIN (UX4)



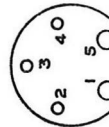
AMERICAN OCTAL (B8B or B8G)



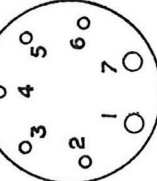
SUB MINIATURE 8 PIN (B8D)



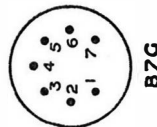
HIVAC FOUR PIN (SM4)



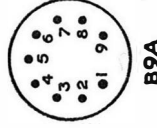
HIVAC FIVE PIN (SM5)



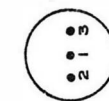
AMERICAN SEVEN PIN (UX7)



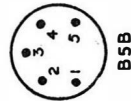
B7G



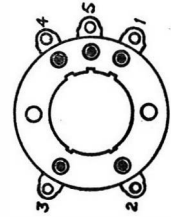
B9A



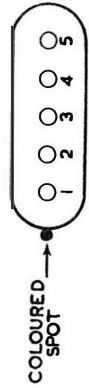
B3G



B5B



**5AA & 7AA
(ACORN VALVES)**

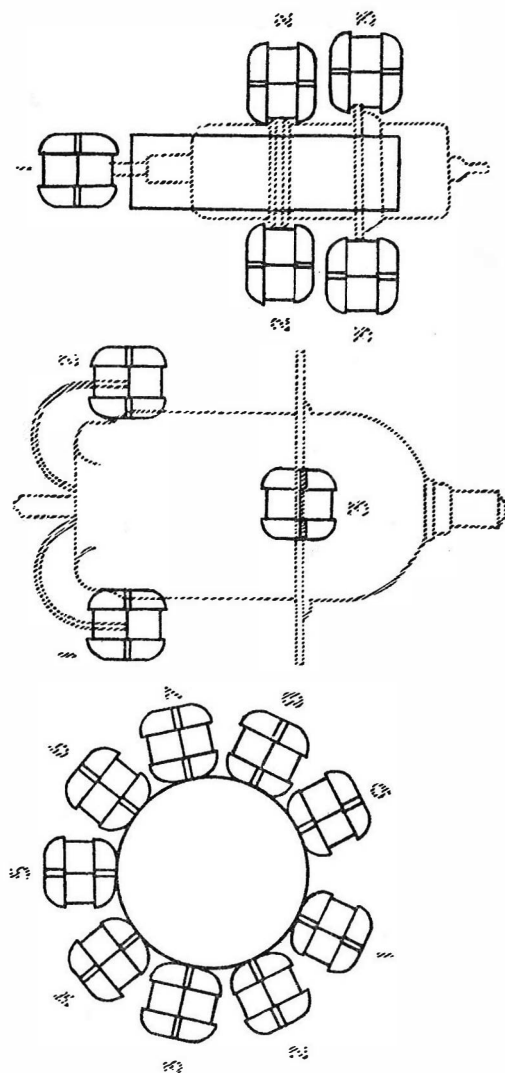


B5A

COLOURED SPOT →

DIAGRAM OF SPECIAL VALVE HOLDERS FITTED TO THE AVO VALVE TESTER TYPE 160

(bases are viewed from top of valve panel)



Commercial Valve Index and Cross Reference to British Service Types

NOTE.—Many of the commercial equivalents listed in the following pages will have different CV. numbers, this is due to special service requirements which do not affect the radio engineer, e.g. interelectrode capacitance, bulb size, life test etc. It should also be noted that test data given in this manual may differ between equivalent valves, due to different sets of potentials having been selected for the test.

ABBREVIATIONS USED FOR MANUFACTURERS' NAMES

CODE LETTER	MANUFACTURER	CODE LETTER	MANUFACTURER
A. ...	Brimar	NN. ...	Compagnei De Lampes (Mazda)
B. ...	B.T.H.	OO. ...	A. B. Svenska Elektronon
C. ...	A. C. Cossor	PP. ...	Amalgated Wireless Valve Co.
D. ...	Siemens-Ediswan	QQ. ...	Philco
E. ...	E. M. I. (Emitron)	RR. ...	Hivac
F. ...	Electronic Tubes	SS. ...	Arctarius
G. ...	English Electric	TT. ...	Industro
H. ...	Ferranti	UU. ...	R. F. T.
I. ...	General Electric (U.S.A.)	VV. ...	General Electrics
J. ...	General Electric Co.	WW. ...	Electronic Enterprises
K. ...	Marconi Osram Valve Co.	XX. ...	Cintel
L. ...	Marconi Wireless Telegraph Co.	YY. ...	Eimac
M. ...	Mullard	ZZ. ...	L. M. Ericsson
N. ...	Phillips	AAA. ...	Amperex
O. ...	Pinnacle Electronic Products	BBB. ...	S.F.R.
P. ...	Radio Corp. of America	CCC. ...	Federal Union
Q. ...	Ryatheon	DDD. ...	Bendix
R. ...	Standard Telephones & Cables	EEE. ...	Dumont
S. ...	Sylvania	FFF. ...	Valvo
T. ...	Tung-Sol	GGG. ...	Heinz-Kaufman
U. ...	British Tungsram	HHH. ...	Taylor Tubes Corp.
V. ...	Western Electric (U.S.A.)	III. ...	Marconi Italiana
W. ...	Western Electric (Great Britain)	JJJ. ...	Sperry
X. ...	20th Century Electronics	KKK. ...	Ever Ready
Y. ...	Hytron	LLL. ...	Triotron
Z. ...	Electrons Inc.	MMM. ...	R.F.T.
AA. ...	National Union	NNN. ...	Marconi Wireless Telegraph Co.
BB. ...	Matchlett	OOO. ...	Dario
CC. ...	Radio Valve Co. of Canada	PPP. ...	Compagnie Generale Telegraphie Sans Fil
DD. ...	Lansdale Tube Co.	QQQ. ...	Penta
EE. ...	Canadian Radio Valve Manufacturing Corp.	RRR. ...	Brown Boveri
FF. ...	Chatham	SSS. ...	East German (manufacturer unknown)
GG. ...	Rogers Majestic	TTT. ...	Tungsram
HH. ...	Kuth Electron Products	UUU. ...	Unknown Japanese Manufacturer
II. ...	Bell Telephone Labs.	VVV. ...	Cetron
JJ. ...	Bomac.	WWW. ...	Solus Electronic Tubes (S.E.T.)
KK. ...	Amperex	XXX. ...	Belvu
LL. ...	Westinghouse	YYY. ...	Ken-Rad.
MM. ...	Victoreen Instrument Corp.	ZZZ. ...	Marshal

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
OO	—	— ...	91
OOA	P.I.QQ.S.T.	— ...	91
OI	—	— ...	—
OIA	P.	— ...	91
OIA	R.	CV750 ...	1
OIAA	T.	— ...	91
OIB	T.	— ...	1
O2DF	M.	(CV2260) ...	—
O9	C.	CV2725 ...	—
O9D	C.	(CV1596) ...	—
O9J	C.	(CV1518) ...	—
O84	—	— ...	91
O517	—	PL5557 ...	—
OA2WA	G.	CV4020, M8223 ...	—
OA2	A.B.BB.N.T.	CV1832, STVI50/30 ...	—
OA3	T.	(CV3798), VR75/30, QS75/40 ...	—
OA4G	T.	CV1992, CV752, Z300T ...	—
OA70	—	IN87 ...	—
OA73	—	CV442, IN616 ...	—
OA79	—	IN541 ...	—
OA81	M.	(CV488), CV1353 ...	—
OA85	M.	CV1354 ...	—
OA86	M.	IN480 ...	—
OA87	—	IN490 ...	—
OA91	—	IN617 ...	—
OA95	—	CV7041, IN618 ...	—
OA202	—	CV7040 ...	—
OB2	A.R.BB.N.T.	CV1833, STVI08/30 108C1 ...	—
OB2WA	G.	CV4028, M.8224 ...	—
OB3	T.	CV3799 ...	—
OC3	T.	(CV686), VR105/30 ...	—
OC16	—	CV7010, 2N115 ...	—
2-OC16	—	2N116 ...	—
OC44	M.	CV7003 ...	—
OC45	M.	CV5105, CV7044 ...	—
OC70	M.	2N279 ...	—
OC71	M.	CV7005, 2N280 ...	—
OC72	M.	CV7006, 2N281 ...	—
2-OC72	M.	2N282 ...	—
OC73	M.	2N283 ...	—
OC76	—	2N284 ...	—
OC77	—	2N284A, CV7007 ...	—
OCP71	M.	2N577 ...	—
OD3	T.	(CV216), QS150/40, VR150/30, 150C3 ...	—
OE3	—	85A1, CV431 ...	—
OG3	M.	(CV449), STV85/10, 85A2 ...	—
OZ4	R.LL.A.T.	CV692 ...	1
OZ4A	T.	CV517, 1003 ...	—
I	—	— ...	1
IA3	RR.LL.T.	CV753, DA90, ID13 ...	1
IA4	—	— ...	122

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
IA4E	C.B.QQ.A.	— ...	1
IA4P	—	CV7541 ...	1
IA4T	I.Q.S.T.	— ...	1
IA5G	R.U.A.	CV755 ...	1
IA5GT	R.A.H.L.C.	CV756 ...	1
IA6	A.	CV757 ...	1
IA7	—	— ...	122
IA7GT	B.LL.A.	CV1802, DK32 ...	1
IA7G	T.R.C.U.M.A.	CV1800, X14 ...	1
IA8	—	— ...	122
IA5B	I.Q.S.T.LL.	— ...	1
IA86	A.T.Y.QQ.	DK96, IC3 ...	1
IA	H.U.	— ...	1
IAC5	P.T.S.U.	— ...	1
IAC6	NN.A.B.U.	DK92, X18, IC2 ...	1
IAD4	NN.T.	(CV2237), DF62 ...	1
IAD5	P.T.S.	— ...	1
IAE4	T.Y.Q.S.NN.	— ...	1
IAE5	—	— ...	122
IAF4	Y.T.S.	— ...	1
IAF5	T.Y.S.	— ...	1
IAF33	—	— ...	122
IAF34	—	— ...	122
IAG4	S.	— ...	122
IAG5	S.	— ...	122
IAH4	—	— ...	122
IAH5	H.Y.U.A.	DAF96, IFD1 ...	1
IAJ4	H.Y.U.Q.A.	DF96, IF1 ...	1
IAJ5	S.	— ...	122
IAK4	S.	— ...	122
IAM4	—	— ...	122
IAN5	—	DF97 ...	1
IAQ5	—	— ...	122
IAR5	—	— ...	122
IAS4	—	— ...	1
IAS5	—	— ...	122
IAX2	Q.I.S.T.P.LL.	— ...	1
IB3/8106	—	CV541, U41 ...	I and Appendix I
IB3GT	LL.T.	CV1830, U41 ...	I and Appendix I
IB4	—	— ...	122
IB4P	—	CV758 ...	1
IB4T	—	— ...	1
IB5/25	CV759	— ...	1
IB6	—	— ...	1
IB7GT	T.	CV760 ...	1
IB8	I.Q.S.T.	— ...	1
IB21A	—	CV3586 ...	—
IB22	JJ.	CV761 ...	—
IB23	—	CV539 ...	—
IB24	—	CV725 ...	—
IB24A	—	CV3548 ...	—
IB26	—	CV576 ...	—
IB27	—	CV713, TRCI ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
IB32/532A	—	CV2648 ...	—
IB35	—	CV369 ...	—
IB35A	—	CV3628 ...	—
IB36	—	CV577 ...	—
IB38	—	CV3549 ...	—
IB40	—	CV2914 ...	—
IB41	JJ.	CV3550 ...	—
IB49	—	CV508... ...	—
IB56	—	CV3877 ...	—
IB58	—	CV3745 ...	—
IB63A	—	CV2826 ...	—
IC	—	— ...	1
IC1	D.	(CV782), X17, IR5, DK91	—
IC2	D.	DK92, X18, IAC6	1
IC3	Q.Y.S.T.	DK96 ...	1
IC3	D.	— ...	122
IC4	—	— ...	1
IC5G	C.H.A.M.U.	CV1803, DL35 ...	1
IC5GT	T.A.H.LL. M.U.	CV1805, 40SUA	1
IC6	S.I.A.SS.N. Q.M.P.T.	— ...	1
IC7	S.I.P.	— ...	2
IC8	T.I.Q.	— ...	2
IC21	T...	CV762, G1502D	—
IC91	—	— ...	122
ICP1	F.	(CV2302), DH3-91	—
ID3	S.	— ...	2
ID4	—	— ...	2
ID5	A.	CV764, U4024	2
ID5EG	—	— ...	2
ID5GP	P.	CV705 ...	2
ID5GT	P.	CV1806 ...	2
ID6	A.	— ...	2
ID7	P.	CV765 ...	2
ID8GT	P.LL.T.	CV1811 ...	2
ID13	D.	(CV75), DA90, IA3	—
IDN5	P.T.	— ...	122
IE3	Y.	— ...	1
IE4	I.Q.S.T.	— ...	2
IE5	SS.I.S.T.	— ...	2
IE5GP	P.	CV766 ...	2
IE5GT	P.	CV766 ...	2
IE7	P.	CV1812 ...	2
IE8	P.T.S.	— ...	2
IF1	D.	DF96 ...	2
IF2	D.	(CV1758), DF92, IL4	2
IF3	D.	(CV785), DF91, IT4, W.17	2
IF4	P.	CV767 ...	2
IF5	P.	CV768 ...	2
IFC	P.	CV769 ...	2

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
IF7GV	P.	CV770 ...	2
IF33	—	— ...	122
IF34	—	— ...	122
IF860	—	— ...	122
IFD1	D.	DAF96... ...	2
IFD9	D.	(CV784), DAF91, IS5	2
IG3	P.	— ...	122
IG3	P.LL.	CV1817 ...	2
IG5	P.	CV771 ...	2
IG6G	P.H.	CV772 ...	2
IG6GT	P.LL.H.	CV773 ...	2
IG35	UUU.	4C35 ...	—
IG50	UUU.	2050 ...	—
IH2	I.	— ...	122
IH3C	—	— ...	122
IH4G	P.	CV774 ...	2
IH5G	A.C.U.M.T.	CV1818, DAC32, HD14	2
IH5GT	T.A.LL.U. H.M.	CV1820, DAC32	2
IH6	I.P.T.M.	— ...	2
IH33	—	— ...	122
IH34	—	— ...	122
IH35	—	— ...	122
IJ3	I.T.	— ...	122
IJ5	I.P.SS.Q.S.T.	— ...	2
IJ6GX	I.	— ...	2
IK3	P.I.T.	— ...	122
IK4	—	— ...	2
IK5	PP.	— ...	2
IK5B	—	— ...	2
IK6	—	— ...	2
IK7	PP.	— ...	2
IL4	NN.U.D.A.- H.LL.T.	CV1758, DF92, IF2	2
IL5	PP.	— ...	2
IL6	I.P.T.Y.LL.Q.S.	— ...	3
IL33	—	— ...	122
IL34	—	— ...	122
IL60	—	— ...	3
IL91	—	— ...	122
IL861	—	— ...	122
ILA4	I.P.T.NN.LL. Y.S.	— ...	3
ILA4E	A.	— ...	3
ILA6E	A.Y.	— ...	3
ILA6	P.LL.	CV775 ...	3
ILB4	P.LL.	CV776 ...	3
ILB6	T.I.Q.S.	— ...	3
ILB7	—	— ...	122
ILC5	P.LL.	CV777 ...	3
ILC6	P.LL.	CV778 ...	3
ILD5	P.LL.A.	CV779 ...	3
ILE3	I.P.T.Y.LL.	— ...	3
ILF3	I.Q.	— ...	3

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
ILG5	Q.I.P.T.Y.S.	— ...	3
ILH4	P.L.L.A.	CV780 ...	3
ILM5	P.A.L.L.T.	CV781 ...	3
ILN5E	A.	CV781 ...	3
IMI	D.	DM71	Appendix I
IM3	D.	CV2980, IM3, DM70	Appendix I
IM5G	PP.	— ...	3
IN3	—	DM71	—
IN5G	A.C.U.T.	CV821, Z14 ...	3
IN5GT	A.H.L.L.U.T.	CV1823, DF33 ...	3
IN6	S.P.I.T.Q.	— ...	3
IN21	—	CV727 ...	—
IN21B	JJ.	CV367 ...	—
IN21C	JJ.	CV3525 ...	—
IN23A	—	CV749 ...	—
IN23B	JJ.	CV2856 ...	—
IN23BM	JJ.	CV2857 ...	—
IN25	—	CV2916 ...	—
IN26	JJ.	CV1785 ...	—
IN28	—	CV2918 ...	—
IN31	JJ.	CV3509 ...	—
IN34	—	CV2829 ...	—
IN34	—	(CV1354) ...	—
IN38	—	CV3551 ...	—
IN38A	M.	CV2962, CV5064	—
IN43	—	CV2919 ...	—
IN47	—	CV3729 ...	—
IN54	—	(CV1354), OA85	—
IN54A	—	CV2961 ...	—
IN58	—	CV1354 ...	—
IN60	—	OA159 ...	—
IN64	—	OA160 ...	—
IN69	NN.	CV2923 ...	—
IN70	M.NN.	CV2924, CV5062	—
IN72	—	CV2974 ...	—
IN75	—	OA161 ...	—
IN81	NN.	CV2928 ...	—
IN87/A	—	OA70 ...	—
IN87	—	OA70, IN87/A ...	—
IN88	—	(CV448), (CV1353)	—
IN476	—	OA61	—
IN478	—	OA81, CV1353	—
IN480	—	OA85, CV1354 ...	—
IN490	—	OA86 ...	—
IN541	—	OA87 ...	—
IN542	—	OA79 ...	—
IN616	—	2-OA79 ...	—
IN617	—	OA73, CV442 ...	—
IN618	—	OA91 ...	—
IPI	D.	OA95, CV7041 (CV820), DL96	3
IP5	P.L.L.	CV728 ...	3
IP10	D.	DL92, 3S4 ...	3
IP11	D.	DL94, 3V4 ...	3
IP21	P.	(CV337) ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
IP23	—	(CV2680) ...	—
IP28	—	27M3 ...	—
IP30	—	(CV1764) ...	—
IP31	—	CV3812 ...	—
IP32	—	(CV405) ...	—
IQ5G	A.U.	CV1824 ...	3
IQ5GT	A.H.I.L.	CV1826 ...	3
IQ6	I.S.T.	— ...	3
IQ22	LL.JJ.	CV3555 ...	—
IR	—	— ...	3
IR4	—	CV2709 ...	3
IR5	T.NN.H.A.	(CV782), DK9, F.U.L.L.	3
IS2	—	ICI	—
IS2A	—	DY86 ...	—
IS4	T.H.C.A.	DY87 ...	3
IS5	T.NN.H.F.A.	(CV783), DL91 U.L.L.	3
IS6	T.	(CV784), DAF91 U.L.L.	3
ISA6	I.Q.S.T.	— ...	3
ISB6	I.Q.S.T.	— ...	3
IT	—	— ...	3
IT2	A.	RI6, U37 ...	3
IT4	NN.C.A.RR.	(CV785), DF91, H.U.F.L.L.T.	3
IT5GT	P.L.L.	IF3	—
IT6	P.T.S.	CV1829 ...	3
IU4 ³	LL.T.	— ...	3
IU5	M.L.L.A.T.	CV2507, DF904 ...	3
IU6	A.T.Y.Q.S.	CV3912 ...	3
IV	P.L.L.U.T.	— ...	3
IV2	H.P.T.Y.S.LL.	CV1999 ...	3
IV4	—	— ...	4
IV5	T.I.S.	— ...	4
IW4	Y.T.Q.S.	— ...	4 & 123
IW5	T.I.Q.S.	— ...	4
IW50	—	— ...	4
IX2	A.S.I.P.T.Y.	Q.L.L. ...	4
IX2A	—	DY80 ...	—
IY2	T.I.S.TT.	— ...	4
IY32	—	— ...	—
IZ1	UU.	— ...	4
IZ2	PPP.	CV2510 ...	4 and Appendix I I
2	—	— ...	4
2-5010	—	— ...	—
2-25A	VVV.	— ...	4
2-50A	VVV.	— ...	4
2-150D	VVV.	CV3878 ...	—
2AIM	—	— ...	123
2A3H	—	— ...	4
2A3	A.L.L.U.T.	— ...	4
2A5	A.U.L.L.	CV1831 ...	4
2A6	U.	CV1384 ...	4
		CV1769 ...	4

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
2A7	U.	CV787 ...	4
2A/I00A	A.	D/I ...	—
2AF4	T.Y.P.I.LL.	— ...	4
2API	P.	CV790 ...	—
2APIA	P.	CV790 ...	—
2BPI	P.	CV3678 ...	—
2B3	I.Y.T.LL.	— ...	4
2B4	T.	CV648, 885	—
2B5	T.	— ...	4 & 123
2B7	U.	CV1837 ...	4
2B7S	I.Q.S.	— ...	4
2B21	—	CV597, 2X2A ...	4
2B22	I.	CV2931 ...	4
2B25	T.Y.	— ...	4
2B26	—	— ...	4
2B29	UUU.	829B ...	—
2B32	UUU.	832A ...	—
2B35	—	— ...	4
2B36	—	(CV1078) ...	4
2B52	UUU.	6252 ...	—
2B94	—	5894A ...	—
2BN4	P.I.Y.T.	— ...	4
2C21	—	CV875 ...	4
2C22	P.	CV792 ...	4
2C23	TT.	— ...	4
2C25	—	— ...	4
2C26	—	CV802 ...	4
2C26A	—	(CV1759) ...	—
2C23	—	—CV793 ...	—
2C34	—	(CV18), 4074A ...	—
2C39	L.	CV579, 3H/I50J ...	—
2C39A	R.YY.	CV2516, TDI-I00A ...	—
2C40	I.	CV2643 ...	123
2C42	—	CV2932, TD3-12 ...	—
2C43	I.	CV688, TD3.5-12 ...	123
2C45	—	CV596 ...	—
2C46	—	CV2933, TD05-12 ...	—
2C48	—	— ...	4
2C50	T.	— ...	123
2C51	ZZ.T.	CV2831 ...	4
2C51W	—	CV2866 ...	—
2C52	I.S.	— ...	4
2C53	AA.	CV3559 ...	—
2CY5	I.P.T.	— ...	4
2DI	—	— ...	4
2D2	M.	CV794 ...	4
2D4	M.	— ...	4
2D4A	M.	CV795, D41, D400 ...	4
2D4B	M.	— ...	4
2DI3A	M.	— ...	5
2DI3C	M.	CV796, I0DI ...	5
2D21	T.R.M.RR.	(CV797), EN91, ...	5
	NN.	20A3 ...	—
2D21W	M.NN.	CV2876 ...	—
2D21W _a	—	CV4018, M8204 ...	—
2DPI	—	CV1813 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
2E5	—	— ...	Appendix I
2E22	T.	CV798 ...	5
2E24	T.Y.P.TT.	— ...	5
	LL.VV.	— ...	—
2E25	Y.	— ...	5
2E26	LL.M.T.Y.P.	CV3990 ...	5
	S.VV.T.	— ...	—
2E30	NN.T.	CV2517 ...	5
2E31	I.Q.	— ...	5
2E32	I.Q.	— ...	5
2E35	I.Q.	— ...	5
2E36	I.Q.	— ...	5
2E41	I.Q.	— ...	5
2E42	I.Q.	— ...	5
2E50	—	— ...	5
2EA5	—	— ...	123
2EN5	—	— ...	123
2EV5	—	— ...	123
2F7	—	— ...	5
2FV6	—	— ...	123
2G	D.	CV1842 ...	—
2G5	T.	— ...	Appendix I
2G/402A	S.	CV1835, 3B28, ...	—
		ESU103 ...	—
2G/472B	S.	CV2518, 4B32 ...	—
2G/473C	S.R.	CV2399, GXU3 ...	—
2H1M	—	— ...	123
2H28	—	3B28 ...	—
2H66	—	866A ...	—
2HMD	—	— ...	5
2J2	—	— ...	123
2J21	—	— ...	—
2J21A	—	CV719 ...	—
2J22	—	CV800 ...	—
2J26	—	CV1760 ...	—
2J31	—	CV1807 ...	—
2J32	—	CV1808 ...	—
2J33	—	CV1809 ...	—
2J34	—	CV1810 ...	—
2J36	—	CV514 ...	—
2J42	M.PPP.	CV3676, JP9-7 ...	—
		MAG3. ...	—
2J42A	—	MAG4, JP9-15, ...	—
		CV3997 ...	—
2J48	—	CV1822 ...	—
2J49	—	CV3687 ...	—
2J50	—	—CV2793 ...	—
2J51	—	CV3560 ...	—
2J51A	—	JPT9-60, CV3560 ...	—
2J54	—	CV801 ...	—
2J56	M.	CV2852, JP9-50 ...	—
2J58	Q.	CV997 ...	—
2K1	—	— ...	5
2K25	N.	CV2792, KS9-20A ...	—
2K28	—	CV1892 ...	—
2P	C.	PI20 ...	5

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
2P22	UUU.	2E22 ...	—
2S	I.Q.S.T.	— ...	5
2S/141G	R.	CV4504 ...	—
2S/140G	R.	(CV469) ...	—
2K33	—	CV1786 ...	—
2K41	—	CV3904 ...	—
2K46	—	KS7-85 ...	—
2K48	—	CV3669 ...	—
2L35	—	— ...	—
2N115	—	OC16, CV7010 ...	—
2N116	—	2-OC16 ...	—
2N279	—	OC70 ...	—
2N280	—	OC71, CV7005 ...	—
2N281	—	OC72, CV7006 ...	—
2N282	—	2-OC72 ...	—
2N283	—	OC73 ...	—
2N284	—	OC75 ...	—
2N284A	—	OC77, CV7077 ...	—
2-OC72	—	2N282 ...	—
2 140G	—	— ...	123
2T4	Y.T.	— ...	5
2T86	UUU.	826 ...	—
2T/270K	R.	(CV261), HR2, R10, 6305 ...	5
2T/450E	R.	(CV3587), 705A... ...	—
2U14	—	— ...	5
2U15	—	— ...	5
2V2	I.T.	— ...	5
2V3	P.	CV803 ...	5 and Appendix I
2V3G	P	CV804 ...	5 and Appendix II
2V/400A	R.	(CV32). 886A, DQ2, ESU866 ...	—
2V/401C	R.	CV1446, 4017B ...	—
2V/407C	R.	(CV1355), 4049C ...	—
2V/471A	R.	(CV1449), 872A... ...	—
2V/490C	R.	4077A ...	—
2V/500A	—	4049GD. ...	—
2V/500C	R.	(CV5), 4049D, ...	—
2V/531E	R.	CV1420 ...	—
2V590E	R.	4080A ...	—
2W3	I.T.Q.S.	— ...	5
2W/540E	R.	(CV1601), 4222B ...	—
2X2	NN.	CV3748 ...	and 5 Appendix II
2X2/8907	—	CV3748 ...	5 and Appendix II
2X2A	H.L.L.	CV597 ...	5
2X3	—	— ...	5
2X/105G	R.	(CV448) ...	—
2X/106G	R.	(CV425) ...	—
2XP	C.	PA20 ...	5
2Y2	P	CV597 ...	5 and Appendix II

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
2Z2	T.S.,	G84 ...	5
3	—	— ...	5
3/02AM	—	956K ...	—
3-25D2	—	3C24 ...	—
3-1000A4	—	WL1000T ...	—
3A	V	CV3812 ...	—
3A2	P.T.I.Y.	— ...	5
3A3	P.T.I.Y.	— ...	5
3A4	T.A.C.U.NN.	(CV807), (CV2300), (CV290), DL93 (CV808), DCC90 ...	5
3A5	U.NN.T.	— ...	5
3A8	P.T.I.Q.S.	— ...	5
3A/105B	R.	CV809 ...	—
3A/107A	R.	(CV249) ...	5
3A/107B	R.	(CV1655) ...	5
3A/108A	R.	(CV1653) ...	5
3A/108B	R.	(CV1657) ...	6
3A/109A	R.	(CV1671) ...	6
3A/109B	R.	(CV1663) ...	6
3A/110B	R.	(CV1659) ...	—
3A/135A	R.	CV2598 ...	—
3A141A	R.	(CV1639) ...	—
3A/142A	R.	(CV1641) ...	—
3A/144A	R.	(CV1694) ...	—
3A/145/J	R.	(CV16) ...	—
3A/146J	R.	(CV53) ...	—
3A/147J	R.	(CV82) ...	—
3A/148J	R.	(CV88) ...	—
3A/154M	R.	— ...	6
3A/167M	R.	CV5112, 437A ...	123
3AE	WV.	CV3812 ...	—
3AB4	—	— ...	123
3AF4A	P.I.T.	— ...	6
3AFPI	—	DH7-91 ...	6
3AFP7	—	DP7-91 ...	—
3AL5	T.P.I.Y.LL.	— ...	6
3ALPI	—	CV2175, DG7-5 ...	—
3AMPI	—	DG7-32 ...	—
3API/906PI	—	CV602 ...	—
3AU6	T.P.I.Y.LL.	... ...	6
3AV6	T.P.I.Y.LL.	— ...	6
3AY6	—	— ...	6
3AZ4	—	— ...	123
3B2	P.I.T.	— ...	6
3B4	NN.	(CV2240), DL98 ...	6
3B5	I.Q.S.T.	— ...	6
3B7/1291	—	CV811 ...	6
3B21	—	CV2959 ...	6
3B22	VVV.	CV3815 ...	6
3B23	TT.	— ...	6
3B24	—	CV812 ...	6 and Appendix II
3B24W	—	CV2858 ...	6 and Appendix II
3B24WA	—	CV4021 ...	6 and Appendix II

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
3B25	P.I.TT.	— ...	6
3B26	—	CV3575 ...	6
3B28	WW.M.G.R. VVV.	CV1835, RR3/250, DX2, ESUI03 GXU1	—
3B29	—	CV3689 ...	—
3B/100B	R.	(CV1689) ...	—
3B/120B	R.	(CV84) ...	—
3B/151A	R.	(CV1648) ...	—
3B/200B	R.	(CV1047) ...	—
3B/240M	R.	(CV2214) ...	6
3B/241M	R.	(CV51160) ...	6
3B/252B	R.	(CV1688), (CV1220), 4033L	6
3B/254D	R.	6BD4A ...	—
3B/351A	R.	(CV1148), 4043C	—
3B/400A	R.	CV1452, 4300A	—
3B/401J	R.	(CV127) ...	—
3B/501A	R.	(CV449) ...	—
3B/504B	R.	(CV1288), 4304CB	—
3B/805A	R.	(CV25), 4242A, ES85	5
3B/851A	R.	(CV1620) ...	—
3BA6	T.I.Y.LL.	— ...	6
3BC5	T.P.I.Y.LL.	— ...	6
3BE6	T.I.Y.LL.	— ...	6
3BN4	I.T.	— ...	6
3BN6	T.P.I.Y.LL.	— ...	6
3BPI	P.	CV814 ...	—
3BP1A	P.	CV2934 ...	—
3BU8	T.P.	— ...	6
3BY6	T.P.I.Y.LL.	— ...	6
3BZ6	T.P.I.Y.LL.	— ...	6
3C2	I.T.	— ...	6
3C4	U.Y.Q.H.	DL96, IPI	6
3C5	I.Q.S.T.	— ...	6
3C6	T.I.Q.S.	XXB ...	6
3C22	—	CV999 ...	—
3C23	—	PL3C23 ...	—
3C24	—	CV789 ...	—
3C31/CIB	—	CV1765 ...	—
3C34	—	CV941 ...	—
3C36	—	— ...	6
3C45	HH.	(CV372), XH3-045	—
3C/250A	R.	(CV1034) ...	—
3C/270A	R.	(CV1252), (CV1619), 4212E, V1505	—
3C/350E	R.	(CV30), 4270A ...	—
3C/351H	R.	(CV27), 4357A ...	—
3CB6	T.Q.I.Y.LL.	— ...	6
3CE5	T.S.	— ...	123
3CF5	—	— ...	123
3CF6	P.I.Y.T.LL.	— ...	6
3CS6	P.I.Y.T.LL.	— ...	6
3CY5	S.T.	— ...	123
3D6/1299	A.U.O.	CV815 ...	6

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
3D21A	R.	CV2659 ...	123
3D22	R.G.	CV2851 ...	—
3D/100A	R.	CV1422 ...	—
3D/150G	R.	CV2735, 4015A ...	—
3D21A	—	— ...	123
3DG4	—	— ...	123
3DK6	S.P.T.	— ...	126
3DT6	Q.I.Y.T.LL.	— ...	6
3DPI	—	CV816 ...	—
3EA5	—	— ...	123
3E5	T.Y.Q.S.	— ...	6
3E6	T.I.Q.S.LL.	— ...	6
3E29	—	CV3599, CV2295, QQV5-P10	—
3EGI	XX.	(CV1526) ...	—
3EPI	—	CV817 ...	—
3ER5	—	— ...	123
3EV5	—	— ...	123
3FP7	—	CV1761 ...	—
3G10	—	— ...	6
3G15	UUU.	CIA ...	—
3G130	—	— ...	6
3G501A	R.	CV2215, 5545 ...	—
3GPI	—	CV516 ...	—
3GRK	J	(CV442) ...	—
3H/151J	R.	CV2516, 2C39A	—
3JI	—	CV1788 ...	—
3J/121E	R.	CV28, ACT29 ...	—
3J/160E	R.	(CV2245) ...	—
3J/170E	R.	CV2905 ...	—
3J/260E	R.	CV2908 ...	—
3JPI	P.	CV2945 ...	—
3JP7	P.	CV2869 ...	—
3JPI2	—	CV2816 ...	—
3KPI	P.	CV3733 ...	—
3L31	—	— ...	123
3L35	—	— ...	123
3LE4	T.I.Q.S.	— ...	7
3LF4	P.S.T.I.Y.Q.LL.	— ...	7
3NP4	—	MW6-2, CV1737	—
3P/270B	R.	CV2950 ...	—
3Q4	T.A.LL.M.NN.	CV818, N18, DL95	7
3Q5GT	M.A.H.LL.	CV819, DL33, N16	7
3Q84E	R.	4220C ...	—
3Q/120E	R.	(CV1605), 4013C	—
3Q/150E	R.	CV1450, 4228A ...	—
3Q/180E	R.	(CV1603), 4014A	—
3Q/181E	R.	(CV1600), 4006A	—
3Q/191E	R.	(CV570) ...	—
3Q/195E	R.	(CV570) ...	—
3Q/211E	R.	(CV1604), SS1971	—
3Q/212E	R.	(CV1797), 4081A	—
3Q/213E	R.	(CV1734) ...	—
3Q/220E	R.	4009B ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
3Q/260E	R.	(CV446) ...	—
3Q/293E	R.	(CV1447), 4030D	—
3Q/310E	R.	(CV3873) ...	—
3RPI	P.	CV3941 ...	—
3S4	NN.H.C.A.F. LL.U.T.	(CV820), (CV484), (CV2370), DL92, IPI0	7
3SB6	—	— ...	123
3V4	U.L.L.P.T.I.Y.	IPI I, DL94, N19, CV2983	7
3V/280B	R.	VLS432A ...	—
3V/281B	R.	4039A ...	—
3V/290A	R.	57 ...	7
3V/390B	R.	CV5028, FG57 ...	—
3V/402B	R.	(CV2126) ...	—
3V/390A	—	PL5559 ...	—
3V/500A	—	EST102 ...	—
3V/530E	R.	(CV477) ...	—
3V/531E	R.	CV477 ...	—
3W4	—	— ...	123
3WP1	P.	CV3946, DG7-36	—
3WP11	—	DB7-36 ...	—
3Y4	—	— ...	123
3Y6AI	—	— ...	123
3Z4	—	— ...	123
4	—	— ...	7
4-65A	YY.	CV1905, QY3-65	—
4/100BU	C.	FW4-500, U18 ...	7
4-125A	O.YY.P.	(CV2963), CV(2130), QY3-125, 4D21, Q160-I	—
4-240A	O.	(CV2131), (CV2964)	—
4-250A	YY.	(CV2964), QY4-250, 5D22, Q400/I	—
4-400A	M.YY.QQQ.	CV3879, QY4-400, Q400-I	—
4-1000A	YY.	CV3880 ...	—
4AI	—	CV821 ...	—
4A6G	T.I.Q.S.	— ...	7
4A07	—	— ...	7
4A08	—	— ...	7
4AI0	—	— ...	7
4AI5	—	— ...	7
4A80	—	— ...	7
4A90	—	— ...	7
4AI20	—	— ...	7
4A/137B	R.	(CV243), 4045A...	—
4AU6	P.I.	— ...	7
4BA6	I.T.	— ...	7
4BI3	—	813 ...	—
4B22	—	CV2936 ...	—
4B24	—	CV822 ...	—
4B25	—	WL670A ...	—
4B26	VVV.	CV1836 ...	—
4B28	VVV.	CV2777 ...	—
4B30	—	CV924 ...	—
4B31	VVV.	CV3510 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
4B32	M.R.I.VVW.	CV2518, RR3-1250, DQ4, GXU2	—
4B35	—	CV926 ...	—
4B36	—	(CV2779) ...	—
4BC5	I.T.	— ...	7
4BC8	P.I.Y.T.	— ...	7
4BE6	I.T.	— ...	7
4BN4	—	— ...	123
4BN6	P.I.T.	— ...	7
4BQ7A	T.P.I.Y.LL.	— ...	7
4BS8	—	— ...	123
4BU8	T.I.P.	— ...	7
4BX8	T.LL.	— ...	7
4BZ6	T.	— ...	123
4BZ7	T.P.I.Y.LL.	— ...	7
4BZ8	Y.T.	— ...	7
4CI	—	— ...	7
4CIA	—	— ...	7
4C2	—	— ...	7
4C3	—	— ...	7
4C4	—	— ...	7
4C5	—	— ...	7
4C21	P.	CV2576 ...	—
4C22	—	CV2987 ...	—
4C27	—	(CV92) ...	—
4C30	—	(CV933) ...	—
4C35	M.	CV1787, XH8-100	—
40/100A	R.	CV2756 ...	—
4CI01	—	— ...	123
4CI02	—	— ...	7
4CI03	—	— ...	7
4C/800E	R.	4278A ...	—
4CB6	P.I.T.	— ...	7
4CE5	I.T.	— ...	7
4CM4	—	— ...	123
4CS6	—	— ...	123
4CSUA	C.	(CV1267) ...	—
4CX7	Y.T.	— ...	7
4CY5	I.T.	— ...	7
4DI	A.	(CV1109) ...	7
4D21	LL.QQQ.	(CV2963), Q160/I, 4-125A	—
4D32	—	CV3543 ...	—
4D80	—	— ...	7
4DE6	—	— ...	123
4DK6	S.T.	— ...	123
4DT6	I.T.	— ...	123
4E27	—	CV824 ...	—
4EI04	—	— ...	123
4E201	—	— ...	124
4EPI	—	DH10-94 ...	—
4ES8	—	— ...	124
4EW6	—	— ...	124
4FRI5R	UUU.	4X150A ...	—
4G23	UUU.	3C23 ...	—
4G30	—	— ...	7

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
4G63	UUU.	5563 ...	—
4G93	UUU.	393A ...	—
4G105	—	— ...	7
4G200	—	— ...	7
4G/280K	R.	(CV797), 2D21, 20A3	—
4G/401A	R.	3D22 ...	—
4G5000	—	— ...	—
4GG1	—	— ...	—
4GG2	—	— ...	—
4GG3	—	— ...	—
4GG4	—	— ...	—
4H07	—	— ...	8
4H08	—	— ...	8
4H22	R.	4B32 ...	—
4H72	R.	872A ...	—
4H73	R.	673 ...	—
4H80	—	— ...	8
4H88	R.	8008 ...	—
4H/135M	R.	CV2519, 4X150A	—
4H/136M	R.	4X150D ...	—
4H/182E	R.	CV1883 ...	—
4J/26	—	CV3779 ...	—
4J/27	—	CV3780 ...	—
4J28	—	CV3781 ...	—
4J29	—	CV3782 ...	—
4J30	—	CV3783 ...	—
4J31	—	CV1914 ...	—
4J33	—	CV1916 ...	—
4J34	—	CV1897 ...	—
4J35	—	CV1898 ...	—
4J50	PPP.	(CV2284), JP9-520	—
4J52	N.PPP.	CV3569, JP9-80 ...	—
4J52A	—	JP9-80A, CV5018	—
4J53	—	CV513 ...	—
4J54	—	CV3947 ...	—
4J55	—	CV3948 ...	—
4J56	—	CV3949 ...	—
4J57	—	CV3950 ...	—
4J58	—	CV3951 ...	—
4J78	—	CV3953, JP9-250A	—
4K30	—	— ...	8
4K32	—	— ...	8
4K50	—	— ...	8
4K61	—	— ...	8
4K100	—	— ...	8
4L11	—	— ...	8
4L12	—	— ...	8
4L13	—	— ...	8
4L13A	—	— ...	8
4L14	—	— ...	8
4L15	—	— ...	8
4L16	—	— ...	8
4L20	—	— ...	8
4L28	—	— ...	8
4L29	—	— ...	8
4LMBT	—	— ...	8

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
4MBT	—	— ...	124
4MPI2	—	— ...	124
4N08	—	— ...	8
4NI00	—	— ...	8
4NI10	—	— ...	8
4NG	—	— ...	8
4P25	—	— ...	8
4RHH2	—	— ...	124
4PR60A	VVV.	CV252, QV20-PI8	—
4S	—	— ...	8
4S09	—	— ...	8
4S120	—	— ...	8
4S121	—	— ...	8
4S126	—	— ...	8
4SH	C.	(CV1126) ...	—
4SHA	C.	CV825 ...	—
4T16	UUU.	100TL ...	—
4T17	UUU.	100TH ...	—
4T100	—	813 ...	—
4TP	—	— ...	8
4TSA	C.	— ...	8
4THA	C.	CV826 ...	8
4TPB (clear)	C.	CV828 ...	8
4TPB (met)	C.	CV829 ...	8
4TSP	C.	CV830 ...	8
4UI30	—	— ...	124
4W03	—	— ...	8
4W03N	—	— ...	8 & 124
4W08	—	— ...	8
4W100	—	— ...	8
4W120	—	— ...	8
4W200	—	— ...	8
4X150A	R.YY.LL.	CV2519, QV1-150A	—
4X150D	R.M.YY.	CV3991 ...	—
4X150G	—	CV3893 ...	—
4X500A	—	QBL4/800, QY4/5000A	—
4XP	C.	(CV1168), AC044	8
4Z60A	—	— ...	124
5A6	N.T.	(CV2360) ...	8
5A/102A	R.	CV3784 ...	—
5A/102D	R.	(CV1724), 329A...	8
5A/105	R.	(CV1726) ...	—
5A/128B	R.	(CV244), 4046A	—
5A/136A	R.	CV2619, 4328A	—
5A/136D	R.	(CV425), 4328D	9
5A/137D	R.	— ...	9
5A/150A	R.	QV05-25, 807, 4310A	9
5A/152M	R.	— ...	9
5A/155M	R.	— ...	9
5A/156M	R.	— ...	9
5A/157D	R.	(CV358) ...	9
5A/159N	R.	(CV2000) ...	—
5A/163K	R.	CV1635 ...	9
5A/164K	R.	CV3536 ...	—
5A/170K	R.	CV3998 ...	9
5A/171G	R.	— ...	9

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
5A/I72G	R.	CV4501 ...	—
5A/I73G	R.	CV4502 ...	—
5A/I74G	R.	CV4503 ...	—
5A/I75G	R.	CV4506 ...	—
5A/I80M	—	— ...	124
5ADPI	M.J.	CV5035, DG13-34	—
5ADP7	—	DPI3-34 ...	—
5ADPII	—	DB13-34 ...	—
5AM8	I.P.Y.T.LL	— ...	—
5AN8	I.P.Y.T.LL.	— ...	9
5API	P.	CV832 ...	—
5AQ5	I.P.Y.T.LL.	— ...	9
5AR4	—	GZ34, CV1377 ...	9
5AS4	I.P.Y.T.	— ...	9
5AS8	I.P.Y.T.	— ...	9
5AT8	I.P.Y.T.LL.	— ...	9
5AU4	I.T.	— ...	9
5AV8	I.P.Y.T.LL.	— ...	9
5AW4	I.Q.Y.T.LL.	— ...	9
5AX4	Q.S.T.	— ...	9
5AZ4	Q.I.P.Y.T.LL.	— ...	9
5BI	A.	(CV1018), Z21 ...	9
5B8	I.Y.P.T.	— ...	9
5B2I	—	1164 ...	—
5B/100A	R.	(CV1369) ...	—
5B110M	R.	— ...	9
5B/151A	R.	(CV1080) ...	—
5B/152D	R.	CV2659, 3D21A...	—
5B/250A	R.	(CV124), QV05-25	9
5B/251M	R.	(CV428) ...	9
5B/252M	R.	(CV391) ...	9
5B/253M	R.	(CV499) ...	9
5B/254M	R.	(CV428) ...	9
5B/255M	R.	CV391 ...	9
5B/256M	R.	(CV499) ...	9
5B/257M	R.	(CV2220) ...	9
5B/258M	—	(CV2347) ...	124
5B/300B	R.	CV834 ...	—
5B/502A	R.	(CV1096) ...	—
5B/600A	R.	(CV1081), 4052A	—
5B/700A	R.	(CV631), 828 ...	—
5BE8	I.Y.T.	— ...	9
5BK7A	I.P.Y.LL.T.	— ...	9
5BKPI	—	DH13-97 ...	—
5BPI	—	CV601 ...	—
5BP4/			
1802P4	P	CV836 ...	—
5BQ7A	I.P.T.	— ...	9
5BR8	I.Y.P.T.	— ...	9
5BS8	—	— ...	124
5BT8	Y.T.P.LL.	— ...	9
5BV8	I.	— ...	124
5BX7	—	— ...	124
5BZ7	I.T.O.	— ...	9
5CI0	—	— ...	124

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
5C22	M.QQQ.HH.	(CV2520), XH16-200, HT415 ...	—
5C/100A	R.	(CV26), 813 ...	—
50/101A	R.	(CV1372), 4069A	—
5C/450A	R.	(CV1506), (CV1630), ESP450	—
5C/500	—	P300-I ...	—
5CG4	—	— ...	124
5CG8	I.P.T.	— ...	10
5CL8	I.T.P.LL.	— ...	10
5CM6	—	— ...	124
5CM8	T.	— ...	10
5CPI	P.	CV600 ...	—
5CP7	P.	CV838 ...	—
5CPIA	P.	(CV2191), DG13-2	—
5CQ8	P.T.	— ...	124
5CR8	S.T.	— ...	124
5CZ5	P.	— ...	10
5D2I	QQQ.	(CV2814), P552/IE, Q160-I, 4-250A	—
5D22	LL.	(CV2964), Q400-I	—
5D/100A	—	(CV1627) ...	—
5DH8	I.S.T.	— ...	10
5E255	—	— ...	10
5E415	—	— ...	10
5EA8	I.T.	— ...	124
5EH8	T.	— ...	124
5EU8	—	— ...	124
5F22A	UUU.	6156 ...	—
5FG7	—	— ...	124
5FP4A	—	MW13-35 ...	—
5FP7 (Spec)	—	CV1789 ...	—
5FP7	—	CV718 ...	—
5FP7A	P.	CV3959, MF13-I	—
5FPII	—	MW13-I, CV5070	—
5FV8	—	— ...	124
5GH8	—	— ...	124
5GK18	—	— ...	124
5GK22	—	— ...	124
5GK24	—	— ...	124
5H4	—	CV840 ...	—
5H69A	UUU.	869B ...	—
5HPI	—	CV3583 ...	—
5HP1A	—	CV3583 ...	—
5JPI	—	CV1791 ...	—
5J23	—	CV542 ...	—
5J26	—	CV3602 ...	—
5J29	—	CV3642 ...	—
5J30	—	CV3843 ...	—
5J31	—	CV5844 ...	—
5J6	I.P.T.LL.	— ...	—
5J59	—	CV3952 ...	—
5J/180E	R.	(CV445) ...	—
5JP2A	—	CV3918 ...	—
5L/444	J.	CV311 ...	—
5LPI	—	CV741 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
5MHH3	—	— ...	124
5MK9	—	— ...	10
5MPI	—	CV740	—
5P29	—	— ...	10
5PT4A	—	— ...	10
5Q5	—	— ...	10
5R4	S.I.T.A.Q.U.	— ...	10
5R4GY	T.L.L.A.U.	(CV717)	10
5R4WGY	—	CV2835	10
5RK16	—	— ...	124
5T01A	XX.	CV1868	—
5T4	P.L.L.J.T.	CV1846	10
5T8	I.P.Y.T.L.L.	— ...	10
5T21	UUU.	250TH	—
5T33	UUU.	833A ...	—
5U4G	NN.H.A.C.	(CV575), (CV1071),	10
	LL.U.M.	U52	
5U4GT	P.	(CV841)	10
5U8	I.P.Y.T.L.L.	— ...	10
5UPI	—	DG13-22	—
5UP7	P.	CV2840	—
5V3	T.	— ...	10
5V4	NN.T.A.H.	CV729, GZ32	10
	M.L.L.U.		
5V6	I.T.L.L.	— ...	10
5W4	P.	CV1849	10
5W4G	P.	CV842	10
5WGT4	P.L.L.	CV503	10
5X3	SS.Q.S.T.	— ...	10
5X4	LL.U.H.	CV1852	10
5X4G	H.A.U.L.L.	CV1851	10
5X4G	H.A.U.L.L.	CV1851	10
5X8	I.P.Y.T.L.L.	— ...	10
5YGT	NN.A.C.H.	CV1854, U50	10
	M.L.L.T.		
5Y3GB	NN.	— ...	10
5Y3R	—	— ...	10
5Y3GT	A.U.M.H.T.	CV1856, U50	10
5Y3GTA	—	CV4027	10
5Y4GT	A.L.L.H.	CV1857	10
5Y4SG	—	— ...	10
5Z3	I.A.U.L.L.NN.	CV1861	10
5Z4	T.A.H.L.L.NN.	CV1864, GZ30	10
5Z4G	U.A.C.M.	(CV1863)	10
5Z4GT	C.M.NN.	(CV2748), GZ30	10
5Z10	—	— ...	124
6/02K	—	1652M	—
6/30L2	D	— ...	10
6A3	A.L.L.	CV730	10
6A4	SS.T.I.QQ.	— ...	10
	S.Q.		
6A5	SS.I.T.	— ...	10
6A6	T.QQ.A.H.	CV1867	11
	LL.U.		
6A7	NN.A.U.L.L.	CV1870	11
6A7E	A.C.	— ...	11

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6A7S	P.I.Q.	— ...	11
6A8	NN.M.H.L.L.	CV579	11
	A.U.T.		
6A8G	T.A.H.L.L.NN.	CV578, X63	11
6A8GT	T.A.H.U.M.	CV580	11
	LL.		
6A10C	—	— ...	124
6AB4	P.I.Q.S.L.L.	E392 ...	11
	T.Y.NN.		
6AB5/6N5	LL.	CV843	Appendix I
6AB6	—	— ...	124
6AB7	NN.H.C.L.L.	CV873	11
6AB8	A.F.N.H.NN.	ECL80	11
	C.U.		
6AC5G	P.L.L.	CV844	11
6AC5GT	P.L.L.	CV845	11
6AC6	—	— ...	124
6AC7	U.H.L.L.	CV660	11
6AD4	Q.S.T.	— ...	11
6AD5	SS.Q.S.T.	— ...	11
6AD6	—	— ...	Appendix I
6AD7	P.M.N.T.	CV1878	11
6AD8	Y.Q.	EBF81 ...	11
6AE5	P.S.I.Q.SS.T.	— ...	11
6AE6	I.Q.P.T.	— ...	11
6AE7	P.I.Q.S.T.	— ...	11
6AE8	Y.	X79 ...	11
6AF3	—	— ...	124
6AF4A	T.I.P.A.S.Q.	— ...	11
	Y.L.L.		
6AF4	LL.T.	CV5036	11
6AF5	I.Q.S.T.	— ...	11
6AF6G	P.L.L.T.	CV847	Appendix I
6AF7	—	— ...	Appendix I
6AG5	T.L.L.U.H.	CV848	11
6AG6	A.	(CV1438), EL33,	11
		6M6 ...	11
6AG7	T.U.P.L.L.NN.	CV1882	11
6AH4	T.I.P.S.Q.L.L.	— ...	11
6AH5	Q.S.T.	— ...	11
6AH6	LL.T.	CV2521	11
6AH7	I.Q.S.T.	— ...	11
6AH7GT	I.Q.S.T.	— ...	11
6AJ4	T.I.Y.Q.S.	— ...	11
6AJ5	T.	CV995	11
6AJ7	—	CV849, 6AC7	11
6AJ8	H.C.M.N.U.F.	(CV2128), ECH81,	11
	NN.	6C12	
6AK4	S.	— ...	11
6AK5	T.A.H.L.L.	(CV850), EF95	11
	NN.U.		
6AK5W	NN.	CV2877, M8100	11
6AK6	T.NN.A.L.L.	CV1762	11
	U.		
6AK7	M.	CV1784	11

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6AK8	NN.C.H.N. A.F.Y.Q.U.	EABC80, 6LD12	11
6AL5	T.NN.M.A. F.U.H.	(CV283), (CV140), EB91, 6D2 ...	11
6AL5W	BB.NN.	CV2882, M8212, 5726	11
6AL6	I.Q.S.T.	— ...	11
6AL7	LL.T.	CV3708	124
6AM4	I.A.Y.Q.LL. P.T.S.	— ...	12
6AM5	F.A.U.C.	(CV136), EL91, 7D9, 6P17	12
6AM6	A.F.C.H.U.	(CV138), EF91, 6F12	12
6AM8	I.P.Y.Q.S. T.LL.	— ...	12
6AM8A	—	— ...	125
6AN4	P.Y.Q.S.LL.	— ...	12
6AN5	T.	CV2854	12
6AN6	I.Y.Q.S.T.	— ...	12
6AN7	Y.S.	ECH80	12
6AN8	I.P.T.Y.LL.	— ...	12
6AN8A	—	— ...	125
6AQ4	M.	CV417, EC91	12
6AQ5	T.J.A.P.LL. U.NN.	CV1862, EL90	12
6AQ5A	—	— ...	125
6AQ5W	NN.	CV2883, M8245	12
6AQ6	LL.T.	CV2937	12
6AQ7	S.I.P.T.Y. Q.LL.	— ...	12
6AQ8	I.N.H.C.F.- U.Y.	ECC85, 6L12	12
6AR5	S.I.P.Y.Q. T.LL.	— ...	12
6AR6	T.	CV3613	12
6AR7GT	Q.	— ...	12
6AS4	Q.	— ...	12
6AS5	I.P.Y.Q.S. T.LL.	— ...	12
6AS6	T.M.LL.C. NN.	CV2522	12
6AS6W	—	CV2884, M8186	12
6AS7G	T.FF.LL.	CV2523, A1834	12
6AS8	I.P.Y.T.LL.	— ...	12
6AT6	T.J.F.U.A. LL.NN.	(CV452), EBC90	12
6AT7N	SS.	— ...	12
6AT8	I.P.Y.T.LL.	— ...	12
6AT8A	—	— ...	125
6AU4	I.P.Y.Q.T.LL.	— ...	12
6AU5	I.P.S.T.Y. Q.LL.	— ...	12
6AU6	T.A.M.LL. U.NN.	CV2524, EF94	12
6AU6A	—	— ...	125
6AU6WA	NN.	CV4023	12

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6AU7	T.	— ...	12
6AU8	I.P.Y.T.LL.	— ...	12
6AV4	Y.Q.NN.	— ...	12
6AV5	S.I.P.Y.Q. T.LL.	— ...	12
6AV6	T.LL.A.U.NN.	CV2526, EBC91	12
6AW4	—	— ...	12
6AW5	—	— ...	12
6AW6	Y.	— ...	12
6AW7	Q.S.T.	— ...	12
6AW8	I.P.Y.T.LL.	— ...	13
6AX2	SS.NN.	— ...	13
6AX4	I.P.Y.Q.S. T.LL.	— ...	13
6AX5	I.P.Y.Q.S.- T.LL.	— ...	13
6AX6	Q.S.T.	— ...	13
6AX7	T.Y.	— ...	13
6AX8	Y.T.	— ...	13
6AY5	—	— ...	13
6AY8	—	— ...	13
6AZ5	Q.	— ...	13
6AZ6	—	— ...	124
6AZ8	I.Y.P.T.	— ...	13
6B3	S.	— ...	124
6B4G	A.LL.T.	CV851	13
6B4	—	— ...	124
6B5	A.T.	CV1885	124
6B7	A.U.H.LL.	CV1891	13
6B7E	A.C.	— ...	13
6B7S	P.I.Q.S.	— ...	13
6B8	H.LL.A.T.	CV1894	13
6B8SG	A.	— ...	13
6B31	—	— ...	124
6B32	—	— ...	124
6BA5	S.T.	— ...	13
6BA6W	M.	CV5037	13
6BA6	A.LL.T.	(CV454), EF93	13
6BA7	LL.T.	CV2527	13
6BA8	I.P.Y.T.	— ...	13
6BA8A	—	— ...	124
6BC4	M.T.	CV5038	13
6BC5	T.G.Y.Q.S.LL.	— ...	13
9BC7	I.Y.P.Q.S.T.	— ...	13
6BC8	P.I.Y.T.	— ...	13
6BC32	—	— ...	124
6BD5	Q.S.T.	— ...	13
6BD6	I.P.Q.S.LL.T.	— ...	13
6BD7	Y.Q.T.	EBC80	13
6BD7A	EBC81	— ...	124
6BE6	LL.A.T.	CV453, EK90	13
6BE7	N.Y.	EQ80	13
6BE8	Y.T.	— ...	13
6BF5	T.I.P.Y.Q.S.LL.	— ...	13
6BF6	I.P.Y.T.Q.S.LL.	— ...	13
6BF7	A.T.	CV3984	13

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6BG6	A.L.L.	CVI887	13
6BG7	S.T.	— ...	13
6BH5	Y.Q.	— ...	13
6BH6	A.L.L.T.	CV3908	13
6BH8	I.P.Y.T.L.L.	— ...	14
6BJ5	Y.Q.S.	N78	14
6BJ6	A.L.L.T.	CV3903	14
6BJ7	I.Y.Q.T.L.L.	— ...	14
6BJ8	Y.T.P.	— ...	14
6BK5	I.P.Y.T.Q.S.L.L.	— ...	14
6BK6	T.Y.Q.S.	— ...	14
6BK7	Y.I.P.Q.S.L.L.	— ...	14
6BK7A	I.Y.Q.S.T.P.L.L.	— ...	14
6BK7B	—	— ...	125
6BK8	Y.	— ...	14
6BL4	P.T.	— ...	14
6BL6	PPP.	CV3614	—
6BL7	M.L.L.T.	CV5039	14
6BL8	—	ECF80	14
6BM5	NN.Q.Y.	— ...	14
6BM6A	M.	CV3939	—
6BM6	PPP.	CV3615	—
6BM8	—	ECL82	14
6BN4	I.P.Y.T.	— ...	14
6BN5	Y.	CV3526, EL85	14
6BN6	M.L.L.T.	CV3616	14
6BN7	Y.Q.S.T.	— ...	14
6BN8	Y.P.T.	— ...	14 & 125
6BQ5	P.M.	CV2975, EL84, 6PI5	14
6BQ6	T.M.L.L.XXX.	CV5040	14
6BQ7	I.Y.P.S.T.	— ...	14
6BQ7A	Q.P.I.T.N.S. L.L.A.	— ...	14
6BR5	—	EM80, 65ME, CVI352	Appendix I
6BR7	A.	(CV2135), 8B5	14
6BR8	I.Y.P.T.	— ...	14
6BS4	—	EC93	14
6BS5	Y.	— ...	14
6BS7	A.Y.	— ...	14
6BS8	I.P.Y.T.L.L.	— ...	14
6BT4	U.H.	CV3891, EZ40	14
6BT6	Y.Q.S.T.	— ...	14
6BT8	Y.T.L.L.	— ...	14
6BU6	Y.Q.S.T.	— ...	14
6BU8	I.Y.T.P.	— ...	14
6BV7	Y.Q.	— ...	14
6BV8	I.T.	— ...	14
6BW4	Y.T.	EZ81	14
6BW6	A.	(CV2136)	14
6BW7	A.Y.	8D6	14
6BW8	I.T.	— ...	15
6BX4	Y.NN.	— ...	15
6BX6	Q.F.N.U.H.Y.	EF80, Z719	15
6BX7	T.I.P.Y.Q.S.L.L.	— ...	15

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6BX8	T.L.L.	— ...	15
6BY5	P.Y.Q.S.T.L.L.	— ...	15
6BY6	I.P.Y.T.L.L.	— ...	15
6BY7	H.N.NN.Q.	CVI375, EF85, C6F19	15
6BY8	C.U.	— ...	15
6BZ6	T.P.	— ...	15
6BZ7	I.P.Y.T.L.L.	— ...	15
6BZ8	I.P.Y.T.Q.S.L.L.	— ...	15
6C3M	I.T.Y.	— ...	125
6C4	—	— ...	125
6C4C	T.A.RR.U.L.L.	(CVI33), ECH90, L77	15
6C4W	—	— ...	15
6C4WA	—	CV2842	15
6C5	—	M8080, CV4058	—
6C5G	H.C.L.L.	CV582, L63	15
6C5GT	H.A.U.M.	CV5851	15
6C6	H.C.M.L.L.	CV583	15
6C7	A.U.H.C.L.L.	CV585	15
6C8G	—	CV584	15
6C9	LL.	CVI896	15
6C10	D.	— ...	15
6C11	D.	CV3888, ECH42	15
6C12	—	— ...	15
6C16	D.	ECH81	15
6C21	—	— ...	125
6C31	VVV.	CV855	—
6C31	D.	— ...	15
6CA4	—	— ...	125
6CA5	—	EZ81, CV5072	15
6CA7	I.Y.T.	— ...	15
6CB5	N.Q.	CVI741, E184	15
6CB6	I.P.	— ...	15
6CB6A	M.I.T.N.Y.	CV3995	15
6CC10	Q.P.L.L.	— ...	125
6CC31	—	— ...	125
6CC40	—	— ...	125
6CC41	—	— ...	125
6CC42	—	— ...	125
6CD6	—	— ...	15
6CD7	I.T.S.A.Y.Q.	— ...	15
6CG6	LL.XXX.	— ...	15
6CE5	—	EM34	Appendix I
6CF5	A.I.P.U.Y.Q.	— ...	15
6CF6	S.T.L.L.	— ...	15
6CF8	I.Y.T.	— ...	15
6CG6	—	— ...	125
6CG7	I.P.Y.Q.S.T.L.L.	— ...	15
6CG8	NN.BB.	EF86	15
6CG8A	Y.Q.S.T.	— ...	15
6CH6	T.I.P.Y.L.L.	— ...	15
6CH7	I.Y.T.P.	— ...	15
6CH8	—	— ...	125
6CH6	A.N.	(CV2127), EL821	15
6CH7	I.Y.T.	— ...	15
6CH8	P.T.	— ...	15

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6CJ5	U.H.	EF41, CV3886 ...	15
6CJ6	M.	(CV2721), EL81	15
6CK4	I.T.	— ...	125
6CK5	U.H.	EL41, CV3889 ...	16
6CK6	M.	CV2726, EL83 ...	16
6CL5	T.	— ...	16
6CL6	M.L.L.T.	CV5041 ...	16
6CL8	Y.T.P.L.L.	— ...	16
6CL8A	—	— ...	125
6CM4	—	— ...	125
6CM5	—	EL36, CV2940 ...	16
6CM6	I.Y.Q.S.T.L.L.	— ...	16
6CM7	I.P.Y.S.T.L.L.	— ...	16
6CM8	T.	— ...	16
6CN5	—	— ...	125
6CN6	N.	EL38, CV450 ...	16
6CN7	I.P.Y.T.L.L.	— ...	16
6CQ6	—	CV2937, 9D6, EF92, CV131	16
6CQ8	P.T.	— ...	16
6CQ8A	—	— ...	125
6CR4	—	— ...	125
6CR5	T.S.	— ...	125
6CR6	I.Y.T.P.	— ...	16
6CR8	T.S.	— ...	125
6CS5	T.	— ...	16
6CS6	I.P.Y.Q.S.- T.L.L.	EH90 ...	16
6CS7	Y.T.P.L.L.	— ...	16
6CS8	T.S.	— ...	126
6CT7	U.H.	CV3883, EAF42 ...	16
6CU5	I.P.T.	— ...	16
6CU6	I.Y.T.L.L.	— ...	16
6CU7	U.H.	CV3888, ECH42	16
6CU8	P.T.	— ...	126
6CV7	U.H.	CV3882, EBC41 ...	16
6CW5	—	CV5094, EL86 ...	16
6CW7	—	ECC84 ...	16
6CX7	Y.T.	— ...	16
6CX8	I.T.	— ...	16
6CY5	S.T.	— ...	126
6CY7	I.T.	— ...	126
6CZ5	P.T.	— ...	16
6D1	D.	(CV375), (CV1092) EA50	16
6D2	D.	(CV383), (CV140), 6AL5	16
6D3	D.	— ...	16
6D4	—	CV1949, EN93 ...	—
6D5	TT.	— ...	16
6D6	T.A.U.H. C.L.L.	CV1900 ...	16
6D7	P.	CV1776 ...	16
6D8	P.L.L.	CV1992 ...	16
6DA4	I.T.	— ...	126
6DA5	—	EM81 ...	Appendix I

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6DA6	N.H.	EF89, CV5156 ...	16
6DA7	T.S.O.	— ...	126
6DB5	T.S.	— ...	126
6DB6	Y.T.L.L.	— ...	16
6DC6	P.Y.T.L.L.	— ...	16
6DC8	NN.	EBF89 ...	126
6DE4	—	— ...	126
6DE6	I.P.Y.T.L.L.	— ...	16
6DE7	—	— ...	126
6DG6	I.P.T.	— ...	17
6DG7	NN.	EM85 ...	126
6DJ8	—	ECC88...	126
6DK6	S.P.T.	— ...	126
6DL5	—	EL95 ...	126
6DN6	Y.T.	— ...	17
6DN7	I.T.	— ...	126
6DQ5	P.T.	— ...	126
6DQ6	I.NN.P.T.L.L.	— ...	17
6DQ8	—	— ...	126
6DR4	—	— ...	17
6DR6	NN.XXX.	— ...	17
6DR7	S.P.	— ...	126
6DR8	—	EBF83 ...	126
6DS5	P.T.	— ...	126
6DS8	—	ECH83 ...	126
6DT5	—	— ...	126
6DT6	I.L.L.T.	— ...	126
6DT8	P.T.	— ...	126
6DU6	—	EF89F ...	—
6DW5	—	— ...	126
6DX8	—	ECL84 ...	—
6DZ7	—	— ...	126
6DZ8	—	— ...	126
6E5	LL.T.	CV1906	Appendix I
6E6	P.SS.Q.T.S.I.	— ...	17
6E7	TT.I.T.Q.P.S.	— ...	17
6E8	U.	X61 ...	17
6EA5	—	— ...	126
6AE7	—	— ...	126
6EB8	—	— ...	126
6EF6	—	— ...	126
6EH5	P.	— ...	126
6EH6	—	— ...	17
6EM5	P.	— ...	126
6ER5	—	— ...	126
6ES6	—	EF97 ...	127
6ES8	—	— ...	127
6ET6	—	EF98 ...	127
6EU8	—	— ...	127
6EV5	—	— ...	127
6EW6	I.	— ...	127
6EX4	—	— ...	17
6EX6	—	— ...	127
6EY6	—	— ...	127
6EZ5	—	— ...	127
6EZ8	—	— ...	127

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6F1	D.	CV3841 ...	17
6F4	D.	CV2939 ...	—
6F5	P.A.L.L.T.	CV1909, H63 ...	17
6F5G	—	CV1908 ...	17
6F5GT	P.L.L.	CV1910 ...	17
6F6	H.L.L.T.	CV1912 ...	17
6F6G	T.A.C.H.U. M.L.L.	(CV1911), KT63 ...	17
6F6G	—	EM84 ...	—
6F6GT	T.M.L.L.	CV731 ...	17
6F7	T.A.L.L.	CV1915 ...	17
6F7B	A.C.M.	— ...	17
6F7E	N.A.	— ...	17
6F7M	—	— ...	17
6F8	C.H.	CV1819 ...	17
6F8G	T.H.C.L.L.	CV1917 ...	17
6F10	—	— ...	127
6F11	D	CV1901 ...	17
6F12	D.	(CV138), 6AM6, EF91, 8D3 ...	17
6F13	D.	CV1829 ...	17
6F14	D.	CV1919 ...	17
6F15	D.	EF41 ...	17
6F16	—	— ...	17
6F17	D.	(CV416) ...	17
6F18	D.	— ...	17
6F19	D.	EF85, 6By7 ...	17
6F20	D.	N729 ...	127
6F21	D.	CV131, EF92 ...	127
6F22	—	— ...	127
6F23	—	— ...	127
6F24	—	— ...	127
6F26	—	— ...	127
6F31	—	— ...	127
6F32	D.	(CV1116) ...	17
6F32	—	— ...	127
6F33	D.	(CV329) ...	17
6F33	—	— ...	127
6F33 (spec)	D.	CV2209 ...	17
6F35	—	— ...	127
6F36	—	— ...	127
6F40	—	— ...	127
6F50R	UUU.	4X500A ...	—
6FD12	D.	UBF89 ...	127
6FG5	—	— ...	127
6FG6	—	EM84 ...	—
6FH6	S.	— ...	127
6FLD12	—	— ...	127
6FM8	—	— ...	127
6FN5	—	— ...	127
6FV6	—	— ...	127
6FV8	—	— ...	127
6FW8	—	— ...	127
6FX4	—	— ...	17
6FY8	—	— ...	127
6G5	—	6U5 ...	Appendix I

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6G6G	H.L.L.T	CV1926 ...	17
6G7	—	— ...	17
6G8G	P.	CV856 ...	17
6G10	UUU.	FG105 ...	—
6G45	UUU.	5545 ...	—
6GA4	—	— ...	127
6GA8	—	— ...	127
6GB3A	—	— ...	127
6GB6	—	— ...	127
6GB9	—	— ...	127
6GG6	—	— ...	17
6GH8	—	— ...	127
6GK17	—	— ...	127
6H1	D.	CV132 ...	128
6H4	I.Q.S.T.	— ...	17
6H5	—	— ...	Appendix I
6H6	T.C.H.M.L.L.	CV1930, D63 ...	17
6H6G	H.A.U.	CV1929 ...	17
6H6GT	T.H.A.L.L.	CV1931 ...	17
6H7G	—	— ...	128
6H8C	—	— ...	128
6H8G	NN.	— ...	18
6H8MG	—	— ...	18
6H9C	—	— ...	128
6H31	—	— ...	128
6J4	LL.T.	CV1763 ...	18
6J4WA	—	M8232, CV5029 ...	—
6J5	H.C.T.	CV1933, L63 ...	18
6J5G	C.A.M.L.L.	(CV1934), L63 ...	18
6J5GTj	T.H.C.A. M.L.L.	CV1935 ...	18
6J6	T.L.L.A.O.	(CV858), ECC91 ...	18
6J6A	—	— ...	128
6J6W	CV2843	— ...	—
6J6W	—	CV2843 ...	18
6J6WA	—	M8081, CV4031 ...	—
6J7	H.C.L.L.T.	CV1936, Z63 ...	18
6J7G	T.H.C.A.U. M.L.L.	(CV1935) ...	18
6J7GT	T.H.A.U. M.L.L.	(CV1937) ...	18
6J9G	U.L.L.	CV859 ...	18
6K4	C.	CV2855 ...	—
6KG5	A.L.L.	CV860 ...	18
6K5GT	LL.T.	CV861 ...	18
6K6G	H.A.	CV1938 ...	18
6K6GT	H.L.L.T.	CV1940 ...	18
6K7	A.H.C.L.L.	CV1942, W63 ...	18
6K7G	A.U.C.M.L.L.	(CV1941) ...	18
6K7GT	H.A.C.M.L.L.	(CV1943) ...	18
6K8	H.C.L.L.T.	CV1945, X61 ...	18
6K8G	T.H.A.U. M.L.L.	(CV1944) ...	18
6K8GT	T.H.A.U. M.L.L.	CV1946 ...	18
6K25	D.	(CV2217) ...	18

Commercial Valve	Manufacturer	Equivalent or nearest in brackets)	Page
6L1	D.	— ...	18
6L5G	P.LL	CV862	18
6L6	T.H.C.LL.	CV1948, KT66	18
6L6G	M.T.A.U.H.	(CV1947)	18
	C.LL.		
6L6GA	T.U.M.LL.	CV2817	18
6L6WGA	—	CV3618	18
6L6WGB	—	CV2796, 5881	18
6L7	LL.T.	CV1951	18
6L6G	A.U.	CV1950	18
6L10	—	— ...	128
6L12	—	ECC85	18
6L13	D.	CV492, 12AX7	128
6L15	—	— ...	128
6L16	—	— ...	128
6L18	D.	CV1899	18
6L19	D.	CV1850	18
6L31	—	— ...	128
6L34	D.	(CV417), (CV319), EC91	18
6L41	—	— ...	128
6L43	—	— ...	128
6L50	—	— ...	128
6LD3	D.	(CV3882), EBC41	18
6LD12	D.	EABC80	18
6LD13	D.	EBC81	128
6LD20	D.	CV1920	18
6M1	D.	(CV2747), Appendix I (CV1103), 6U5	
6M2	D.	EM85	Appendix I
6M3	T.	— ...	18
6M5	Y.Q.S.	— ...	18
6M6	—	EL33, 6AG6	18
6M7	—	— ...	18
6M7MG	—	— ...	18
6MHH3	—	— ...	128
6M8	Q.	— ...	18
6N3	—	EY82	18
6N4	I.Y.Q.S.T.	— ...	18
6N5	—	CV843	Appendix I
6N6	—	CV1954	—
6N6G	A.T.	CV1953	—
6N7	H.LL.T.	CV1957	—
6N7G	CA.	CV1956	18
6N7GT	H.A.LL.T.	CV1958	18
6N8	N.H.U.Y.Q.S.	EBF80	18
6NK7	—	— ...	18
6PI	D.	— ...	18
6P5	P.LL.	CV1819	18
6P6	—	— ...	18
6P7	P.	CV864	18
6P8	A.	OM10	18
6P9	—	— ...	18
6P15	D.	EL84	19
6P17	D.	CV136, EL91	128
6P25	D.	CV1853, KT61	19

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6P26	D.	— ...	19
6P28	D.	— ...	19
6PX6	—	— ...	19
6PZ8	—	— ...	19
6Q4	M.N.	CV1886	19
6Q5	T.	CV1815, 884	—
6Q6	—	— ...	19
6QL6	—	— ...	19
6Q7	LL.T.	CV588	19
6Q7g	T.A.C.N.U.	CV587, DH63	19
	H.M.LL.		
6Q7GT	T.H.A.U.C.	CV589	19
	M.LL.		
6Q6L	—	— ...	19
6R	—	— ...	19
6R3	N.	EY81	19
6R4	M.	CV1865, EC81	19
6R6G	—	CV1960	19
6R7	LL.T.	CV1963, DL63	19
6R7G	A.H.U.	CV1962	19
6R7GT	LL.T.	CV1964	19
6R8	Y.Q.S.T.	— ...	19
6RDHVI	—	— ...	128
6RHH2	—	— ...	128
6RHVI	—	— ...	128
6RP10	—	— ...	128
6RP15	—	— ...	128
6RR8	—	— ...	128
6RV	—	— ...	19
6S2	—	CV2966, EY86	19
6S2A	—	EY87	—
6S4	T.I.P.Y.Q.S.LL.	— ...	19
6S6	Q.	— ...	19
6S7	LL.	CV1975	19
6S7G	—	CV1974	19
6S8	I.P.T.Y.Q.S.LL.	— ...	19
6SA7	A.H.C.LL.T.	CV1966	19
6SA7GT	M.LL.	CV1967	19
6SB7Y	I.P.T.Y.Q.S.LL.	— ...	19
6SC5	—	— ...	19
6SC7	LL.T.	CV1969	19
6SC7GT	LL.A.	CV1970	19
6SD7GT	T.	CV865	19
6SE7	I.Q.S.T.	— ...	19
6SF5	LL.T.	CV1972	19
6SFGT	LL.T.	CV1973	19
6SF7	T.I.P.Y.Q.	— ...	19
	S.T.LL.	— ...	19
6SG7	T.H.A.LL.	CV1978	19
6SH7	T.H.A.C.LL.	CV594	19
6SH7GT	H.	CV595	19
6SH7L	—	(CV5167)	19
6SJ7	T.H.A.C.LL.	CV591	19
6SJ7G	—	CV590	19
6SJ7GT	T.H.U.M.LL.	CV592	19
6SJ7WGT	—	CV3619	19

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6SJ7Y	P.	CV866 ...	19
6SJ8G	—	— ...	128
6SJ8EG	—	— ...	128
6SK7	T.H.A.LL.	CV1981 ...	19
6SK7GT	T.H.U.C. M.LL.	CV1982 ...	19
6SL7GT	T.H.A.C.LL.	CV1985 ...	19
6SN7	M.	CV278, B65 ...	19
6SN7GT	T.H.A.U. M.LL.	(CV1988), B65 ...	19
6SN7WGT	—	CV3627 ...	19
6SQ7	T.H.A.C.LL.	CV1990 ...	19
6SQ7GT	T.H.U.M.LL.	CV1991 ...	19
6SR7	T.LL.	CV867 ...	19
6SS7	T.H.C.LL.	CV1993 ...	19
6ST7	T.	CV1996 ...	19
6ST7G	—	CV1995 ...	19
6SU7	I.T.S.T.T.Q.	— ...	19
6SV7	I.T.Y.Q.LL.	— ...	19
6SZ7	P.T.I.Q.S.	— ...	19
6T	—	— ...	19
6T4	LL.T.	CV3808 ...	20
6T5	—	— ...	Appendix I
6T6	—	— ...	20
6T7G	—	CV500 ...	20
6T8	A.I.T.P.Y. Q.S.LL.	(EABC80) ...	20
6T8A	—	— ...	128
6TE8	—	— ...	20
6TE9	—	— ...	20
6TH8	U.	— ...	20
6TP	—	— ...	20
6U3	Y.Q.	— ...	20
6U4	I.Q.S.T.A.	— ...	20
6U5/6G5	U.A.LL.	CV504, 6M1 ...	Appendix I
6U5G	A.U.	(CV2747), Y61, Appendix I Y63	
6U5M	—	— ...	128
6U6	I.P.S.T.	— ...	20
6U7G	A.U.H.LL.	CV706, W63 ...	20
6U8	M.LL.T.	CV5065, ECF82 ...	20
6U8A	—	— ...	128
6V3	T.I.P.S.Q. Y.LL.NN.	— ...	20
6V4	H.A.C.U.Q.	EZ80 ...	20
6V5	Q.S.T.	— ...	20
6V6	C.H.LL.T.	CV510 ...	20
6V6G	U.C.H.A.M.	(CV509) ...	20
6V6GT	T.C.H.A.	(CV151) ...	20
6V7G	M.LL.	CV870 ...	20
6V8	Y.Q.S.A.	— ...	20
6W2	F.C.H.	6X2, EY51, R12, ... R12A	20 and Appendix II
6W3	—	— ...	20
6W4GT	LL.T.	— ...	20
6W5	SS.I.T.S.Q.	— ...	20

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6W6	—	— ...	128
6W7G	—	CV512 ...	20
6W6	I.P.T.Y.Q.S.LL.	— ...	20
6WC5	—	— ...	128
6X2	M.N.	(CV426), EY51, R12, R12A, 6W2, U43	20
6X3	—	— ...	20
6X4	A.H.LL.T.	(CV493), EZ90	20
6X4W	—	CV2844 ...	20
6X5	P.LL.T.	CV573, U70 ...	20
6X5G	M.A.U.H.C.	(CV572) ...	20
6X5GT	A.H.C.LL.T.	(CV574), U70, EZ35	20
6X5WGT	—	CV3734 ...	20
6X6	—	— ...	Appendix I
6X8	I.P.Y.Q.S.T.LL.	— ...	20
6X8A	—	— ...	128
6Y3	—	CV1816 ...	20
6Y5	P.SS.Q.S.T.	— ...	20
6Y6G	H.C.LL.T.	CV515 ...	20
6Y7	I.P.SS.Q.S.T.	— ...	20
6Y50	—	— ...	128
6Z3	—	— ...	20
6F4	—	CV619, 84 ...	20
6Z5	—	CV871, 12Z5 ...	20
6Z6	—	— ...	20
6Z7	—	— ...	128
6Z31	—	— ...	128
6ZDH3A	—	— ...	21
6ZPI	—	— ...	21
6ZY5G	A.LL.	CV873 ...	21
6Z73	—	CV872 ...	21
7	—	CV874 ...	—
7A	—	CV823 ...	—
7A2	A.	(CV1174), Pen.4Va	21
7A3	A.	(CV1181), Pen.A4	21
7A4	LL.T.	CV1770 ...	21
7A5	LL.T.	— ...	21
7A6	LL.T.	CV876 ...	21
7A7	A.H.LL.	CV877 ...	21
7A7LM	—	CV877 ...	21
7A8	A.LL.T.	CV878 ...	21
7AB7	I.Q.S.T.	— ...	21
7AC7	—	— ...	21
7AD7	I.P.Y.S.T.	— ...	21
7AF7	I.P.Y.Q.S.T.LL.	— ...	21
7AG7	I.P.Y.Q.S.T.LL.	— ...	21
7AH7	I.P.Y.Q.S.T.	— ...	21
7AHPI	M.	CV2352, DG16-22	—
7AHP7	—	DPI6-22 ...	—
7AHP11	—	DBI6-22 ...	—
7AJ7	I.Q.S.T.	— ...	21
7AK7	I.Q.S.T.	— ...	21
7AN7	N.H.C.U.Y.T.	PCC84, 30LI ...	21
7AU7	I.P.Y.T.LL.	— ...	21
7B	—	CV824 ...	—
7B4	LL.	CV884 ...	21

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
7B5	A.L.L.	CV880 ...	21
7B5E	A.	(CV880) ...	21
7B5LT	P.	CV881 ...	21
7B6	A.H.L.L.	CV882, DH81 ...	21
7B6LM	—	CV882 ...	21
7B7	A.F.L.L.T.	CV522 ...	21
7B8	A.L.L.T.	CV883 ...	21
7B8LM	—	CV883 ...	21
7BP7	—	CV884 ...	—
7BP7A	P.	CV3637 ...	—
7C4/ 1203A	P.T.	CV2706 ...	21
7C5	H.A.F.L.L.T.	CV885 ...	21
7C5LT	P.	CV886 ...	21
7C6	A.F.H.L.L.	CV887 ...	21
7C7	A.L.L.T.	CV1777 ...	21
7D3	A.	— ...	21
7D5	A.	CV1425 ...	21
7D6	A.	(CV1672) ...	21
7D7	T.	— ...	21
7D8A	CV889	— ...	21
7D8S	A.	(CV1328) ...	21
7D9	A.	(CV136), EL91, 6AM5 ...	21
7D10	A.	(CV2127), EL821, 6CH6 ...	21
7DJ8	—	PCC88... ...	128
7E5/1201	—	CV2704 ...	21
7E6	LL.T.	CV891 ...	21
7E7	LL.T.	CV892 ...	21
7ED7	—	— ...	128
7ES8	—	— ...	128
7EY6	I.	— ...	128
7F7	A.L.L.T.	CV893 ...	21
7F8	LL.T.	CV2968 ...	21
7F8	LL.T.	CV2968 ...	21
7F16	—	— ...	22
7F25A	UUU.	4-1000A ...	—
7G7	—	CV894 ...	22
7G8	I.Q.S.T.	— ...	22
7H16	—	— ...	22
7H7	A.F.H.L.L.T.	CV895, W148 ...	22
7H57	UUU.	857B ...	—
7J7	A.L.L.	CV897 ...	22
7K7	A.H.T.	CV896 ...	22
7L7	I.Y.Q.L.L.P.S.T.	— ...	22
7MB1A	XX.	(CV1880) ...	—
7N7	C.A.L.L.T.	CV898 ...	22
7Q7	H.C.L.L.	CV899 ...	22
7R1	—	— ...	22
7R7	H.A.L.L.	CV900 ...	22
7S7	P.A.I.F.H.L.L. C.Q.S.T.	X81 ...	22
7T7	I.Q.S.T.	— ...	22
7UP7	—	CV3639 ...	—
7V7	I.P.T.Y.Q.S.L.L.	— ...	22
7W7	LL.T.	CV902 ...	22

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
7X6	S.T.	— ...	22
7X7	I.P.T.Y.Q.S.L.L.	— ...	22
7Y4	H.A.F.L.L.T.	CV901, U82, UI49 ...	22
7Z4	H.A.C.L.L.T.	CV1790 ...	22
8A1	A.	(CV1124), SP4 ...	22
8A1	—	DG7-36- ...	—
8A2	—	— ...	22
8A3	V.	CV813 ...	—
8A8	N.C.	30CI, PCF80 ...	22
8AU8	I.T.	— ...	22
8AU8A	—	— ...	129
8AW8	I.T.P.	— ...	22
8AW8A	—	— ...	129
8BA8	I.T.	— ...	22
8BA8A	—	— ...	129
8BH8	T.S.	— ...	129
8BN8	T.	— ...	129
8BQ5	KK.P.T.	— ...	129
8BQ7A	Y.NN.	— ...	22
8CG7	I.P.T.	— ...	22
8CM7	I.P.T.	— ...	22
8CN7	I.T.	— ...	22
8CS7	T.S.	— ...	129
8CX8	I.T.	— ...	22
8CY7	I.T.	— ...	129
8D2	A.	(CV1108), SPI3C ...	22
8D3	A.	(CV138), EF91, 6AM6 ...	22
8D4	—	— ...	22
8D5	A.	CV2135, 6BR7 ...	23
8D6	—	— ...	23
8D7	—	— ...	23
8D8	A.	— ...	129
8EB8	S.	— ...	129
8EM5	P.	— ...	129
8F66R	UUU.	6166 ...	—
8G140	—	— ...	23
8MPI2	—	— ...	129
8NP12	—	— ...	129
8RHPI	—	— ...	129
8SN7	T.	— ...	129
8SN7G1B	—	— ...	—
8T2I	UUU.	9C2I ...	—
8T2IR	UUU.	9C22 ...	—
8T7IR	UUU.	5671 ...	—
8T92	UUU.	892 ...	—
8T92R	UUU.	892-R ...	—
9/01	—	CV254 ...	—
9-3	—	(CV368) ...	—
9A1	A.	(CV1172), VMP4G ...	23
9A3	—	— ...	23
9A8	H.U.	PCF80 ...	23
9AB4	—	— ...	23
9AK8	N.H.Y.	PABC80 ...	23
9AQ8	N.H.Y.	PCC85 ...	23
9AU7	I.T.	— ...	23
9BQ7A	—	— ...	23

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
9BM5	Q.	— ...	23
9BW6	Y.Q.A.	— ...	23
9CL8	I.T.	— ...	129
9D2	A.	(CV1106), VPI322	23
9D5	A.	(CV1053)	—
9D6	A.	(CV131), EF92, 6F2I	23
9D7	A.	— ...	23
9DZ8	—	— ...	129
9EF6	—	— ...	129
9EN7	—	— ...	129
9GB8	—	— ...	129
9HP7	—	CV905	—
9J6	—	— ...	23
9JP1	—	CV1783	—
9LD1	—	CV254	—
9L01A	XX.	(CV464)	—
9LP7	—	CV2789	—
9MD	XX.	(CV262)	—
9M06A	XX.	(CV2108)	—
9MW5AX	XX	(CV2127)	—
9F9	—	— ...	23
9PK5	F	(CV109)	—
9T8	—	— ...	129
9T71	UUU.	5770	—
9U8	U.Y.T.I.H.C.	PCF82	23
9U8A	—	— ...	129
9X8	—	— ...	129
10	P.U.	CV603	23
10 (Spec.)	P.	CV906	—
10C1	D.	X145	23
10C2	D.	— ...	23
10C8	—	— ...	129
10C14	D.	UCH81	129
10D1	A.	(CV1300), DD620	23
10D2	D.	— ...	129
10D3	A.	CV1419	—
10DA7	T.S.	— ...	129
10DA8	—	— ...	129
10DE7	P.T.	— ...	129
10EB8	—	— ...	129
10EG7	—	— ...	129
10ER5	—	— ...	130
10F1	D.	— ...	130
10F3	D.	— ...	130
10F9	D.	— ...	23
10F18	D.	— ...	23
10FD12	D.	UBF89	130
10KP7	P.	CV3693	—
10L1	D.	— ...	23
10L14	D.	UCC85	130
10LD3	D.	UBC41	23
10LD11	D.	— ...	23
10LD12	D.	UABC80	130
10LD13	D.	UBC81	130
10M1	D.	— ...	Appendix I
10M2	D.	UM35	Appendix I

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
10PI3	D.	— ...	23
10PI4	D.	— ...	23
10PI8	D.	UL84	130
10PL12	—	— ...	130
10Y	—	(CV603)	—
11	P.	— ...	23
11A1	—	— ...	130
11A2	A.	(CV2813), ACHL/DD	23
11A6	—	— ...	130
11C5	T.	— ...	130
11CY7	—	— ...	130
11D3	A.	CV1419	23
11D5	A.	— ...	23
11E1	D.	— ...	24
11E2	D.	(CV276)	24
11E3	D.	(CV73)	—
11E8	—	— ...	24
11F6	—	— ...	130
11J7	—	— ...	130
11K7	—	— ...	130
11L6	—	— ...	130
11N7	—	— ...	130
11X5	—	— ...	24
12	P.	— ...	24
12A4	I.Y.Q.S.T.	— ...	24
12A/112A	P.	CV1174	24
12A5	P.	CV908	24
12A6	H.A.T.	CV525	24
12A6GT	P.	CV526	24
12A7	A.L.L.	CV909	24
12A8GT	P.L.L.	CV910	24
12AB5	I.P.Y.T.L.L.	— ...	24
12AC5	U.	UF41	24
12AC6	—	— ...	130
12AD5	—	— ...	130
12AD6	—	— ...	130
12AD7	Y.T.	— ...	24
12AE6	—	— ...	130
12AE7	—	— ...	130
12AEP6	—	CV429	—
12AF3	—	— ...	130
12AF6	—	— ...	130
12AH7GT	H.L.L.T.	CV529	24
12AH8	Y.Q.A.	— ...	24
12AJ6	—	— ...	130
12AJ7	Y.	— ...	24
12AK7	T.	— ...	24
12AL5	I.P.Y.T.Q.S.L.L.	— ...	24
12AL8	—	— ...	130
12AQ5	I.P.Y.Q.T.L.L.	— ...	24
12AS5	Q.	— ...	24
12AT6	A.N.I.L.L.NN.	HBC90	24
	Q.Y.U.T.S.	—	
12AT7	E.A.L.L.T.	(CV455), ECC81	24
12AT7WA	PPP.	(CV4024), M8162	24
12AU4	—	— ...	24

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
12AU6	U.A.L.L.T.	CV1961 ...	24
12AU7	T.A.R.R.L.L. NN.	(CV491), ECC82	24
12AU8	—	— ...	130
12AV5	I.T.P.	— ...	24
12AV6	A.N.I.L.L.NN.	HBC91 ...	24
	P.U.S.Y.O.T.	— ...	
12AV7	I.P.Y.Q.S.T.L.L.	— ...	24
12AW6	I.P.Y.Q.S.T.L.L.	— ...	24
12AW7	—	— ...	24
12AX4	I.T.P.Y.Q.S.L.L.	— ...	24
12AX7	A.L.L.NN.T.	(CV492), ECC83, 6L13	24
12AY7	LL.T.	CV3650 ...	24
12AZ7	I.P.T.Y.Q.S.L.L.	— ...	24
12B3	S.	— ...	130
12B4	T.I.Y.Q.S.L.L.	— ...	24
12B6	—	— ...	24
12B7	S.T.	— ...	24
12B8GT	P.	CV911 ...	24
12BA6	A.L.L.T.	(CV1928), HF93	25
12BA7	T.I.P.Q.S.L.L.	— ...	25
12BC32	—	— ...	130
12BD6	I.P.Y.Q.L.L.	— ...	25
12BE6	A.T.N.L.L.- NN.	HK90 ...	25
12BF6	I.P.Y.Q.S.T.L.L.	— ...	25
12BH7	A.L.L.T.	CV504 ...	25
12BK5	I.Y.T.P.L.L.	— ...	25
12BK6	Y.Q.S.T.	— ...	25
12BL6	—	— ...	130
12BN6	I.Y.Q.S.T.	— ...	25
12BQ6	I.P.T.	X5 ...	25
12BR7	I.P.Y.T.L.L.	— ...	25
12BR7A	—	— ...	130
12BT6	Y.Q.S.T.	— ...	25
12BU6	Y.Q.S.T.	— ...	25
12BV7	I.P.Y.T.L.L.	— ...	25
12BW4	Y.T.	— ...	25
12BY7	I.P.Y.Q.A.L.L.	— ...	25
12BZ7	I.P.Y.Q.T.L.L.	— ...	25
12C5	I.Y.L.L.T.	— ...	25
12C8	H.T.	CV531 ...	25
12C8(spec)	—	CV837— ...	—
12C8GT	A.	CV3827 ...	25
12CA5	I.P.T.Y.L.L.	— ...	25
12CM6	Y.Q.T.	— ...	25
12CN5	—	— ...	130
12CR5	T.S.	— ...	130
12CR6	I.P.Y.T.L.L.	— ...	25
12CS5	T.S.	— ...	130
12CS6	Y.T.	— ...	25
12CT8	I.T.	— ...	25
12CU5	I.P.T.	— ...	25
12CU6	I.Y.T.L.L.	— ...	25
12CX6	—	— ...	130

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
12CY6	—	— ...	130
12D4	I.T.P.L.L.	— ...	25
12DA6	—	— ...	25
12DB5	T.S.	— ...	130
12DE8	—	— ...	130
12DF5	—	— ...	130
12DK5	—	— ...	131
12DK7	—	— ...	131
12DL8	—	— ...	131
12DM5	—	— ...	131
12DP7	P.	CV913 ...	—
12DP8	—	CV914 ...	—
12DQ6	I.P.Y.T.L.L.	— ...	25
12DQ7	I.	— ...	131
12DS7	—	— ...	131
12DT5	—	— ...	131
12E1	D.	(CV345) ...	25
12E5	I.P.Y.T.	— ...	25
12E8	—	— ...	25
12E12	D.	CV398 ...	—
12F	—	— ...	25
12F5	I.T.SS.Q.S.	— ...	25
12F8	—	— ...	131
12FP7	—	CV915 ...	—
12G4	Q.S.T.	— ...	25
12G7	—	— ...	25
12G8	I.T.	— ...	25
12GB3	—	— ...	131
12GB6	—	— ...	131
12GK17	—	— ...	131
12H4	Y.S.T.	— ...	25
12H6	P.L.L.T.	CV916 ...	25
12J5	P.L.L.T.	CV534 ...	25
12J5GT	C.H.U.M.L.L.	CV535 ...	25
12J7GT	T.A.H.U.M. LL.	CV917 ...	25
12K7GT	H.A.U.M.L.L.	CV918, W76 ...	25
12K8	H.L.L.T.	CV703, X76 ...	25
12K8GT	H.A.M.	CV3927 ...	25
12L01A	XX.	(CV2162) ...	—
12L6	I.Y.L.L.T.	— ...	26
12L8	P.T.TT.Q.S.	— ...	26
12M7	—	— ...	26
12MW3	—	C12D ...	—
12MW3A	—	C12B ...	—
12NK7	—	— ...	26
12Q7GT	A.L.L.	CV547 ...	26
12S7	U.	UAF42 ...	26
12S8	—	— ...	26
12SA7	C.L.L.A.T.	CV537 ...	26
12SAGT	U.L.L.T.	CV538 ...	26
12SC7	H.L.L.T.	CV540 ...	26
12SF5	P.L.L.	CV919 ...	26
12SF5GT	P.	CV920 ...	26
12SF7	P.L.L.	CV921 ...	26
12SG7	C.H.L.L.T.	CV694 ...	26

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
I2SH7	H.L.L.T.	CV992	26
I2SH7GT	H.T.	CV3651	26
I2SJ7	H.A.I.L.L.T.	CV697	26
I2SJ7GT	H.U.L.L.T.	CV698	26
I2SK7	H.A.I.L.L.T.	CV543	26
I2SK7GT	H.U.L.L.T.	CV544	26
I2SL7GT	P.L.L.	CV924	26
I2SN7GT	T.A.H.I.M.L.L.	CV925, B36	26
I2SQ7	T.A.I.L.L.	CV546, DH76	26
I2SQ7GT	T.H.U.M.L.L.	CV547	26
I2SP7	—	CV3655	—
I2SR7	L.L.A.T.	CV700	26
I2SS7	T.	— ...	26
I2SW7	—	CV3666	26
I2SX7	X.	CV3697	26
I2SY7	—	CV3668	26
I2TC1A	XX.	CV1869	—
I2TE8	—	... ...	26
I2TE9	—	— ...	26
I2U5	A.	— ...	Appendix I
I2V6	I.T.Y.Q.S.L.L.	— ...	26
I2W6	I.P.Y.T.L.L.	— ...	26
I2WC5	—	— ...	26
I2X3	—	— ...	26
I2X4	I.T.P.Y.Q.S.L.L.	— ...	26
I2X825	—	68510 ...	—
I2XPR4A	—	MW31-74	—
I2Y4	—	CV523	26
I2Z3	P.A.M.L.L.	CV927	131
I2Z5	—	— ...	26
I2ZDH3A	—	— ...	26
I2ZPIA	—	— ...	26
I3	—	— ...	26
I3BCIU	—	— ...	26
I3BF2U	—	— ...	26
I3DI	A.	(CV423), 25SN7GT	26
I3D2	A.	6SN7GT	26
I3D3	A.	(CV2212)	27
I3DHA	C.	I1D3	27
I3EI	D.	CV2377	127
I3F9U	—	— ...	27
I3HI	—	— ...	27
I3H2	—	— ...	27
I3PGA	C.	I5DI	27
I3SPA	C.	CV929, 8D2	27
I3VPA	C.	CV1106, 9D2	27
I3VI	—	— ...	27
I4	QQ.	— ...	27
I4A4	I.P.Y.Q.S.T.	— ...	27
I4A5	P.I.S.Q.T.	— ...	27
I4A7	H.L.L.	CV3935, 12B7	27
I4AF4	—	— ...	27
I4AF7	I.P.Y.T.S.	XXD	27
I4AHP4A	—	AW36-80	—
I4B6	A.I.P.Y.Q.S.L.L.	— ...	27
I4B8	P.I.Q.S.T.	— ...	27

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
I4C5	P.I.Q.S.T.	— ...	27
I4C7	I.Y.Q.S.T.L.L.	— ...	27
I4E6	I.Q.S.T.	— ...	27
I4E7	T.I.Y.S.P.	— ...	27
I4F6	U.	— ...	27
I4F7	L.L.T.	CV930	27
I4F8	I.P.Y.Q.S.T.L.L.	— ...	27
I4H7	A.F.I.P.Y.	— ...	27
	Q.S.T.L.L.	— ...	27
I4J7	I.P.Q.S.T.	— ...	27
I4K7	U.	UCH42	27
I4L	C.	(CV1087)	—
I4L7	—	UBC4I	27
I4N7	I.P.Y.Q.S.	— ...	27
I4Q7	I.T.P.Q.Y.S.L.L.	— ...	27
I4R7	A.L.L.T.	CV3937	27
I4S7	A.F.H.T.	CV3936	27
I4V7	Q.T.	— ...	27
I4W7	I.Q.S.T.	— ...	27
I4X7	I.Q.S.T.	— ...	27
I4Y4	I.Q.S.T.	— ...	27
I4Z3	—	— ...	27
I5	P.A.C.	CV391	27
I5A	D.	(CV986)	—
I5A2	A.	(CV3576) MX40	27
I5A6	N.H.U.T.U.Q.	PL83 ...	28
I5A8	T.	— ...	28
I5B	D.	(CV326)	—
I5CW5	—	PL84 ...	—
I5DI	A.	(CV2956)	28
I5D2	A.	(CV1107)	28
I5DQ8	—	PCL84	—
I5E	—	CV933	—
I5L01A	XX.	CV1744	—
I5MW3A	—	CI5B ...	—
I5R	—	CV934	—
I5X6	—	— ...	28
I6	—	— ...	28
I6A5	F.N.H.C.Y.Q.	PL82, 30PI6	28
I6A8	U.H.	PCL82	28
I6CN8	—	— ...	28
I6DI	—	— ...	28
I7	RR.	— ...	28
I7 (thry.)	—	PL5557	—
I7AV5	I.T.	— ...	28
I7AX4	I.P.T.	— ...	28
I7BQ6	P.	— ...	28
I7BQP4	—	MW43-69	—
I7BTP4	—	AW43-80	—
I7C5	I.T.	— ...	28
I7C8	—	UBF80	28
I7DI	—	— ...	28
I7EW8	—	— ...	131
I7DHQ6	I.P.T.S.	— ...	28
I7N8	—	— ...	28
I7R5	S.T.	— ...	28

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
17Z3	F.NN.H.N. Q.Y.C.U.	PY81 ...	28
18	A.U.SS.U. QQ.S.	— ...	28
18A5	I.T.	— ...	28
18AK5	ZZ.	— ...	28
18AQ5	ZZ.	— ...	28
18C51	ZZ.	— ...	28
18J6	ZZ.	— ...	28
19	SS.T.QQ.S.Q. P.A.C.U.I.	— ...	28
19A3	—	— ...	131
19AJ8	—	— ...	28
19AQ5	Q.Y.S.A.	— ...	28
19AU4	I.P.T.Y.LL.	— ...	28
19BD	—	— ...	28
19BG6	I.P.U.Y.Q.S. T.LL.A.	— ...	28
19BR5	—	UM80 ...	—
19BY7	—	— ...	28
19C8	Y.Q.S.T.	— ...	28
19D3	D.NN.	UCH81 ...	131
19D8	N.	UCH81 ...	28
19DC8	—	— ...	131
19DE7	—	— ...	131
19E2	D.	(CV265) ...	—
19EA8	—	— ...	131
19G3	D.	(CV277) ...	28
19G6	D.	(CV371) ...	28
19H1	D.	(CV121) ...	28
19H4	D.	(CV2180) ...	28
19H5	D.	(CV490) ...	—
19J6	I.P.T.Y.Q.LL.	— ...	29
19SU	—	— ...	29
19T8	I.P.T.Y.Q. S.LL.A.	— ...	29
19U3	—	— ...	29
19V8	Y.Q.S.T.	— ...	29
19W3	—	— ...	29
19X3	F.N.Y.Q.	U309, PY80 ...	29
19X8	P.Y.Q.S.T.	— ...	29
19Y3	F.U.N.H.C. Q.Y.	PY82 ...	29
20	P.I.QQ.T.S.Q.	— ...	29
20A1	A.	CV1424, TH4B ...	29
20A2	A.	CV1848 ...	—
20A3	D.	(CV797), 2D21 ...	—
20A3	A.	— ...	131
20CV	M.	CV5120 ...	—
20D1	M.	— ...	29
20D2	A.	— ...	29
20D3	—	12AH8... ...	29
20D4	I.A.	— ...	131
20F2	—	— ...	29
20J8	—	— ...	29
20K	C.	(CV954), (CV1379) ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
20L1	D.	— ...	29
20P1	D.	— ...	29
20P2	—	— ...	29
20P3	D.	— ...	29
20P4	D.	— ...	29
20P5	D.	— ...	29
20RDHV1	—	— ...	131
20Y1	—	— ...	131
20Y40	—	— ...	131
21/2	—	CV3584 ...	—
21A6	Q.F.H.C.U. Y.QQ.	N359, PL81, NI52 ...	29
21A7	—	— ...	29
21B6	NN.XXX.	— ...	29
21CJP4	MW53-20	— ...	—
21CW7	—	— ...	131
21DJ8	—	— ...	131
21ES8	—	— ...	131
21L40	—	— ...	131
21TH8	—	— ...	29
22	SS.T.P.I.QQ. S.Q.	— ...	29
22/11BXA	J.	(CV439) ...	—
22AC	—	— ...	29
22DE4	—	— ...	131
22S/200A	R.	CV1451, 4724A ...	—
23	—	— ...	131
23D	C.	(CV1588), (CV1382) ...	—
24	A.T.	— ...	29
24A	A.LL.	CV936 ...	29
24B1	D.	CV6008 ...	—
24B2	D.	CV339 ...	—
24C3	D.	CV125 ...	—
24E	A.C.QQ.	— ...	29
24G	—	3C24 ...	—
24NG	—	— ...	29
24S	Q.S.T.	— ...	29
25	—	— ...	29
25	—	— ...	131
25A6	A.C.M.T.	CV549 ...	—
25A6G	M.	CV550 ...	29
25A7GT	A.	CV937 ...	29
25AC1D	—	— ...	29
25AV5GA	T.Y.Q.S.LL.	— ...	30
26AX4	I.LL.T.	— ...	30
25B5	—	— ...	131
25B6	—	CV939 ...	30
25B8GT	A.	CV940 ...	30
25BG6	—	— ...	30
25BK5	I.T.Q.S.T.	— ...	30
25BQ6	XXX.NN.I.P. Y.LL.Q.S.T.	— ...	30
25C5	I.Y.Q.T.	— ...	30
25C6	I.T.Y.Q.	— ...	30
25CA5	Y.T.LL.	— ...	30
25CD6	I.P.Y.T.LL.	— ...	30

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
25CR5	T.S.	— ...	131
25CU6	I.P.T.Y.LL.	— ...	30
25D4	—	— ...	131
25D8	SS.I.Q.S.T.	— ...	30
25DN6	I.Y.P.T.	— ...	30
25DQ6	Y.T.	— ...	30
25DT5	—	— ...	131
25E5	H.	PL36 ...	30
25EC6	I.T.	— ...	30
25EH5	P.	— ...	131
25FID	—	— ...	30
25F5	T.	— ...	30
25FY8	—	— ...	131
25FG6	—	— ...	131
25GB6	—	— ...	131
25L6	A.T.	CV552 ...	30
25LG6	H.U.	CV551 ...	30
25L6GT	T.A.U.M.LL.	CV553, KT32 ...	30
25MK15	—	— ...	30
25RE	C.A.QQ.	— ...	30
25S	QQ.S.	— ...	30
25SN7GT	A.	(CV423) ...	30
25T	YY.	CV941 ...	—
25T3G	—	— ...	30
25TG	YY.	CV789 ...	—
25U4	Q.A.	— ...	30
25V5	—	— ...	30
25W4	I.P.Y.LL.Q.T.S.	— ...	30
25W6	I.Q.S.T.	— ...	30
25W9	—	— ...	30
25X4	—	— ...	30
25X5	—	— ...	30
25X6	SS.I.Q.S.T.	— ...	30
25Y4	—	— ...	132
25Y5	A.M.T.	CV942 ...	30
25Y5G	A.U.P.SS.T. Q.S.I.	— ...	30
25Y6	—	— ...	30
25Z3	—	— ...	30
25Z4	I.Q.S.T.M.A.	U31 ...	30
25Z5	A.C.U.LL.T.	CV555 ...	30
25Z6	LL.A.T.	CV558 ...	30
25Z6GT	A.U.M.LL.	CV559 ...	30
26	LL.	CV943 ...	30
26A6	P.I.Q.Y.S.T.	— ...	30
26A7GT	T.	CV3577 ...	31
26AE6	—	PY86 ...	132
26AQ8	—	— ...	31
26B6	—	— ...	31
26BK6	Y.Q.S.T.	— ...	31
26BQ6	—	— ...	31
26C6	P.I.T.Y.S.	— ...	31
26CG6	Y.Q.S.	— ...	31
26D	C.	CV2727 ...	31
26D6	P.I.Y.Q.T.	— ...	31
26E6	T.	— ...	31

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
26NG	—	— ...	31
26J	C.	CV2786 ...	—
26Z5W	T.Q.	— ...	31
26Z6	T.	— ...	31
27	A.C.U.LL.	CV944 ...	31
27BL8	—	— ...	132
27MI	D.	(CV337) ...	—
27S	I.Q.S.T.	— ...	31
27SU	F.C.	— ...	31
27SV	—	— ...	31
28AK8	—	— ...	31
28AX8	—	— ...	31
28D7	T.	CV945 ...	31
28D7GT	—	CV946 ...	31
28Z5	I.Q.S.T.	— ...	31
29	—	— ...	31
29CI	D.	CV430 ...	31
29D	C.	CV2728 ...	—
30	C.A.LL.	CV604 ...	31
30TWIN	YY.	CV1780 ...	—
30A5	—	— ...	31
30CI	D.	PCF80 ...	31
30CA	D.	(CV987) ...	—
30CI2PI	D.	CV1746 ...	—
30CI3	D.	— ...	132
30CI5	—	— ...	132
30D5	D.	CV1860 ...	—
30E7/PI	D.	CV400 ...	—
30E8PI	D.	(CV2216) ...	—
30F5	D.	— ...	31
30FLI	D.	— ...	31
30GP9	—	— ...	31
30HM/HD	—	(CV1140) ...	—
30LI	D.	PCC84, B319, 7AN7 ...	31
30P4	D.	— ...	31
30PI2	D.	— ...	31
30PI4	D.	— ...	31
30PI6	D.	PL82 ...	31
30PI8	—	— ...	132
30PI9	—	— ...	132
30PLI	—	— ...	31
30PLI3	—	— ...	132
30X	—	— ...	31
31	P.	CV947 ...	—
31A3	U.	UY41, U142 ...	31
31BX7	—	— ...	132
31C2	D.	CV2965 ...	—
32	A.	CV711 ...	31
32	C.	(CV711) ...	31
32A	C.	(CV951) ...	—
32E	C.A.	(CV957), (CV711) ...	31
32ET5	—	— ...	132
32G	C.	(CV953) ...	—
32J	C.	(CV958) ...	—
32L7GT	A.LL.	CV948 ...	31
33	U.	CV949 ...	31

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
33A/100A	R.	CVI750 ...	32
33A/101K	—	— ...	132
33A/138M	R.	(CVI8), 7074A ...	32
33A/158M	R.	(CVI884) ...	32
33B/152M	R.	CVI540 ...	32
34	—	CVI751 ...	32
34	—	— ...	132
34E	A.	(CVI751) ...	32
35/51	—	CVI752 ...	32
35	M.U.C.T.	CVI752, 51 ...	32
35A3	—	— ...	132
35A5LT	LL.A.	CVI753 ...	32
35B5	I.P.Y.Q.S.T.LL.	— ...	32
35C3	—	— ...	132
35C5	I.P.Y.S.T.LL.	— ...	32
35CD6	T.	— ...	132
35D5	III.	— ...	132
35DZ8	—	— ...	132
35L6	U.T.	CV561 ...	32
35L6GT	H.A.M.C.LL.	CV562 ...	32
35L31	—	— ...	132
35QL6	—	— ...	32
35RE	A.C.QQ.	— ...	32
35S	I.Q.	— ...	32
35T	YY.K.	CV668, DET18 ...	—
35TG	YY.	CVI754 ...	—
35W4	T.U.Y.Q.S.LL.	HY90 ...	32
	NN.I.P.A.	—	
35X4	T.	— ...	32
35Y4	I.P.T.Y.Q.S.LL.	— ...	32
35Y5	—	— ...	32
35Y31	—	— ...	132
35Z3	A.H.LL.T.	CV564 ...	32
35Z3	—	CV565 ...	32
35Z3LT	—	CV726 ...	32
35Z4GT	U.H.A.M.LL.	CV2500, U76 ...	32
35Z5	—	CV567 ...	32
35Z5GT	A.U.LL.T.	CV568 ...	32
35Z6	I.Q.S.T.	— ...	32
36	C.M.A.LL.	CVI775 ...	32
36AM3	—	— ...	132
37	A.C.M.	CV606 ...	32
38	C.	(CV712) ...	32
38A	C.	CV712 ...	32
38A3	A2.	UY85 ...	132
39/44	A.	CVI771 ...	32
40	—	CV2501 ...	32
40PPA	C.	7D3 ...	32
40SUA	C.	(CVI276), 1D5 ...	32
40Z5	—	CV2530 ...	32
40Z5GT	T.	CV2530 ...	32
41	A.LL.T.	CV608 ...	32
41DS	A.	CVI131 ...	—
41E	A.C.QQ.	— ...	32
41FP	C.	CV2520, ML4 ...	32
41M	—	— ...	32

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
41MDG	C.	— ...	32
41ME	—	— ...	Appendix I
41MH	C.	(CV2503), MH41 ...	32
41MFH	C.	(CVI037), 354V ...	32
41MHL	C.	CV2504, 354V ...	32
41MLF	C.	(CVI038) ...	32
41MP	C.	(CVI458), ML4 ...	32
41MPG	C.	CV2505, FC4, 15A2 ...	32
41MPT	C.	CV2506 ...	32
41MRC	C.	AC2HL ...	32
41MSG	C.	MS4B ...	33
41MTA	—	— ...	33
41MTB	—	— ...	33
41MTL	C.	CVI117, 354V ...	33
41MTS	—	— ...	33
41MVSG	—	SP4 ...	33
41MXP	C.	(CVI122), PAI ...	33
41STH	C.	(CV2508), AC/THI ...	33
42	H.A.C.LL.	(CV609), (CVI712) ...	33
42E	C.A.	CV609 ...	33
42MP/PEN	C.	(CVI181), PenA4, 7A3 ...	33
42MPT	C.	(CVI325) ...	33
420T	C.	CV2511, PenA4, 7A3 ...	33
420TDD	C.	CV2521, AC2, PenDD. ...	33
42TB	—	— ...	33
42SPT	C.	CVI444 ...	33
43	A.U.LL.	CB2514 ...	33
43E	A.C.	CV2514 ...	33
43MG	—	— ...	33
43IU	C.	(CVI039), R2, UU5 ...	33
44	C.I.P.QQ.	— ...	33
44A/160M	R.	(CV415), TT15 ...	33
44IU	C.	R3, (CVI039), ...	33
		IW4-500	
44SU	—	— ...	33
45	A.P.C.S.U.	CV610 ...	33
45A	—	— ...	33
45A5	U.	UL41, CVI977 ...	33
45B5	GG.	UL84 ...	33
45BQ5	—	— ...	132
45DQ8	—	— ...	132
45DS	C.	CV2528 ...	—
45DX8	—	— ...	132
45IU	C.	CV2529 ...	33
45LIU	—	— ...	33
45SP	P.	CV596 ...	—
45Z3	I.P.Y.Q.S.T.	— ...	33
45Z5GT	P.LL.	CV2530 ...	33
46	P.T.	CV2531 ...	33
47	A.U.LL.	CVI772 ...	33
48	P.SS.Q.S.T.	— ...	33
	QQ.	—	
49	P.	CV2532 ...	33
49	—	— ...	132
50	U.	CV2533 ...	33

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
50A5	A.I.T.P.Y.S.LL.	— ...	33
50AX6	Q.T.	— ...	33
50B5	A.T.S.Q.U.LL.	— ...	33
	NN.P.I.Y.	—	
50BM8	—	UCL82 ...	—
50BK5	Y.T.	— ...	33
50CID	—	— ...	33
50C5	LL.A.T.	(CV1959), HL92	33
50C6	I.P.Q.S.T.	— ...	34
50CA5	—	— ...	132
50CD6	Q.A.	— ...	34
50DC4	—	— ...	132
50EH5	—	— ...	132
50F2	—	— ...	34
50FY8	—	— ...	132
50LID	—	— ...	34
50L6G	H.A.	CV2534, KT71	34
50L6GT	A.U.M.LL.T.	CV571 ...	34
50X6	I.P.S.T.Y.Q.LL.	— ...	34
50YIU	—	— ...	34
50Y6GT	LL.T.	CV805 ...	34
50Y7	I.P.Y.Q.S.T.LL.	— ...	34
50Z6	I.Q.S.	— ...	34
50Z7	P.I.Q.S.T.	— ...	34
51	F.	(CV487) ...	34
51A3	—	WL927 ...	—
52	Q.S.	— ...	34
52CD6	—	— ...	34
52CG	M.	CV2986 ...	—
52KU	C.	(CV1863) ...	34
53	LL.T.	CV2535 ...	34
53A	—	CV2536 ...	—
53KU	F.	(CV378), U54 ...	34
54KU	C.	(CV729), GZ32 ...	34
54NCPII	—	CV2885 ...	—
55A/165M	R.	— ...	34
55	—	CV2537 ...	34
55CG	M.	CV405, 927 ...	—
55N3	—	UY82 ...	132
56	U.LL.	CV611 ...	34
56AS	I.S.Q.	— ...	34
57	R.U.LL.	CV612, CV5027, PLI5559, FG57	34
57AS.	I.Q.S.	— ...	34
58	U.LL.	CV613 ...	34
58AS	I.Q.S.	— ...	34
59	—	CV2538 ...	34
59A3	—	(CV2962) ...	—
59A4	—	(CV2692), 918 ...	—
59B	—	— ...	34
59D	—	WL928 ...	—
59TAV3	—	WL917 ...	—
60	—	— ...	132
60/250	—	— ...	34
60A3	—	WL920 ...	—
61A3	—	WL930 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
61BC	C.	CV1979 ...	34
61DV3	—	WL929 ...	—
61P	C	CV2539 ...	—
61SPT	C.	— ...	34
62BT	F.	CV1745 ...	34
62DDT	C.	EPC41, 6LD3 ...	34
62TH	C.	ECH42, 6C10 ...	34
62VP	C.	EF41 ...	34
63	—	— ...	34
36D	C.	CV2540 ...	—
Appendix I			
63ME	—	CV2747, 6MI ...	—
63DS	C.	CV2731 ...	—
63SPT	C.	(CV1091) ...	—
63SPT	C.	(CV1091), EF50 ...	34
63TI	—	— ...	34
63TP	—	— ...	34
64	—	— ...	34
64ME	C.	— ...	Appendix I
64SPT	—	— ...	34
64SU	C.	(CV135) ...	—
65	—	— ...	35
65ME	C.	— ...	Appendix I
66KU	C.	EZ40 ...	35
67	—	— ...	35
67PT	C.	EL41 ...	35
68	—	— ...	35
68A	—	— ...	35
69	Y.	— ...	35
70	—	— ...	35
70A7	SS.T.I.Q.S.	— ...	35
70L7	A.I.P.SS.Y.	— ...	35
70B1	M.	(CV470) ...	—
71	—	— ...	35
71A	LL.	CV2541 ...	35
71A3	—	(CV1764) ...	—
71B	—	— ...	35
72	—	CV709 ...	35
72R	Q.	CV709 ...	35
73	—	CV2543 ...	35
73R	Q.	CV2543 ...	35
75	P.U.C.A.LL.	CV614 ...	35 & 132
75BI	M.	QS75/20, CV824 ...	—
75CI	M.	CV4084 ...	—
76	U.A.LL.	CV615 ...	35
77	A.H.U.LL.	CV616 ...	35
77E	C.QQ.A.	— ...	35
78	A.H.U.LL.	CV2544 ...	35
78DS	A.	(CV1328) ...	—
78E	A.C.QQ.	— ...	35
79	P.C.A.	CV2545 ...	35
80	C.M.LL.T.	CV617 ...	35
80A	A.U.H.	— ...	132
80M	—	— ...	35
80S	A.C.	— ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
81	P.	CV2546 ...	35
81M	—	— ...	35
82	U.	CV1773 ...	35
82AV4	—	WL919 ...	—
82V	—	— ...	35
83	P.A.L.L.T.	CV618 ...	35
83V	P.A.	CV2547 ...	35
84	P.C.	(CV2548) ...	35
84/6Z4	CV619	CV619 ...	35 & 20
84A3	—	WL923 ...	—
85	P.A.C.L.L.	CV2549 ...	35
85AI	M.	(CV431), OE3 ...	—
85A2	M.N.	(CV449), QS83/3, OG3	—
85A4	—	WL928 ...	—
85AS	I.P.S.	— ...	35
85S	—	— ...	35
88	—	— ...	35
88D	C.	(CV2185) ...	—
89	—	CV833 ...	35
89D	C.	(CV2193) ...	—
89J	C.	CV2750 ...	—
89Y	—	CV833 ...	—
90	—	— ...	35
90AC	—	— ...	35
90AG	M.	(CV2270) ...	—
90AV	M.	(CV2132) ...	—
90CG	M.	(CV2133) ...	—
90CV	M.N.	(CV2134) ...	—
90EG4	XX.	(CV1587), 901A...	—
92	—	— ...	35
95	—	— ...	35
95AI	M.	CV286 ...	—
96	—	— ...	35
98	—	— ...	35
99V	SS.T.	— ...	35
99X	SS.T.	— ...	36
100/ 200LLID	—	— ...	132
100AC	—	— ...	36
100B1	M.	(CV1199) ...	—
100R	—	CV2967, 8020 ...	—
100TH	YY.WWW.	CV2552 ...	—
101D	—	CV1778, 3A/141A	—
101F	—	CV2553 ...	—
102D	—	CV1779, 3A/142A	—
104D	—	3/144A ...	—
104V	M.	(CV1161) ...	36
105	—	PL105 ...	—
108CI	M.	(CV1833) OB2	—
111A	—	CV2554 ...	—
112A	T.	CV1774 ...	36
114	—	— ...	36
114B	TT.	— ...	36
116Pen	C.	(CV1337) ...	36
117L7GT	LL.A.T.	CV2556 ...	36

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
117M7	I.P.	— ...	36
117N7GT	P.A.L.L.T.	CV2557 ...	—
117Z3	A.T.P.Y.S.	— ...	36
	LL.NN.	— ...	—
117Z4	I.P.Q.S.T.	— ...	36
117Z6GT	P.L.L.A.T.	CV2558 ...	36
120	—	— ...	36
120A	—	4120A ...	—
121A	—	CV2560, 4121A ...	—
121K	—	CI2FM, MW53-80	—
121VP	—	UF41 ...	36
122A	—	CV2561 ...	—
124AC	—	— ...	36
129B	CCC.	CV2950 ...	—
141DDT	—	UBC41, 10LD3 ...	36
141TH	C.	UCH42 ...	36
142BT	C.	— ...	36
143D	—	CV557 ...	—
144V	—	— ...	36
150B2	M.N.	(CV2225), 6354 ...	—
150B3	M.	QS150/15, CV287	—
150C2	M.	(CV1832) OA2 ...	—
150C3	M.	CV216, OD3 ...	—
150C4	M.	CV1832, OA2 ...	—
152RA	—	CV3878 ...	—
154V	M.	(CV1037), MHL4	—
161	J.	CV708 ...	—
163Pen	—	— ...	36
164V	M.	CV2562, MHL4 ...	36
171DDP	C.	UBF80 ...	36
173K	—	MW43-69 ...	—
181	—	— ...	36
182A	—	— ...	36
182B	I.QQ.S.Q.	— ...	36
183	P.I.T.QQ.S.Q.	— ...	36
185BT	C.	CV1980 ...	36
185BTA	C.	— ...	36
200	—	CV2988 ...	—
200A	TT.	— ...	36
202	J.	(CV1200) ...	—
202DDT	C.	— ...	36
202MPG	C.	— ...	36
202SPB	—	— ...	36
202STH	C.	TH232I ...	36
202VP	C.	— ...	36
202VPB	C.	— ...	36
203A	—	4242A ...	—
203B	—	CV2986 ...	—
203THA	C.	— ...	36
204A	—	CV2563 ...	—
205D	—	CV1749, 3B/151A	36
205E	V.	CV2566, 3B/151A	36
205F	V.	CV2567 ...	36
210DET	—	CV2569, HL2 ...	37
210DDT	C.	CV1044, TDD2A	37
210HF	C.	CV2570, PM2HL	37

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
210HL	C.	CV2571, PM2HL	37	242B	—	4242A ...	—
210HPT	C.	KTS, Pen 220 ...	37	242C	V.	CV2587, 4242A ...	—
210LF	C.	(CV1021)	37	244	—	— ...	37
210PG	C.	(CV1043), FC2 ...	37	244A	V.	CV2588	—
210PGA	—	— ...	133	244V	M.	(CV1038), 354V	37
210RC	C.	CV2977, HL2 ...	37	245A	—	— ...	37
210SPG	C.	FC2, X22 ...	37	246A	—	— ...	133
210SPT	C.	(CV1049) Z22 ...	37	247A	—	— ...	37
210T	S.	— ...	37	249A	—	2V/400A	—
210VPA	C.	CV2574, W21 (7 Pin)	37	249B	TT.	— ...	38
210VPT	—	—	—	250TH	YY.WW.	CV2589	—
(7 Pin)	C.	(CV1083), W21 (7 Pin)	37	250TL	—	WL806	—
210VPT	—	—	—	252A	—	— ...	38
(4 Pin)	—	CV171 ...	—	255	—	— ...	38
211	P.	CV620 ...	—	256B	V.	CV2592	—
211 (Spec)	P.	CV2576 ...	—	257	T.	— ...	38
211H	—	TI00-I ...	—	257A	V.	CV2593	133
212E	V.HH	CV2577, CV1252, 4212E, MY3-275, VI505	—	258B	HHH.VVV.	CV2594	—
212K	—	MW53-80 ...	—	259A	V.	CV2595	38
213	—	— ...	37	259B	—	— ...	38
213Pen	—	— ...	37	262A	V.	CV2597	38
215P	C.	(CV1019) ...	37	262B	V.	CV2597	38
215SG	C.	(CV1018), PM12M	37	264	—	— ...	38
217A	—	— ...	37	264A	V.	CV2598	38
218	P.	CV2579 ...	—	264C	V.	CV2599	38
220	—	— ...	133	264E	—	— ...	38
220B	C.	(CV1032), B21 ...	37	264L	—	— ...	38
220C	CCC.	CV2580 ...	—	267B	V.	CV2600	—
220DD	C.	— ...	37	267B	V.	CV2600	—
220HPT	C.	(CV1118), PM22A	37	270A	V.	(CV30), 4270A ...	—
220IPT	C.	(CV1333) ...	37	271A	V.	CV2601	38
220LF	CI	(CV1313) ...	—	272	—	PL5557	—
220LPT	C.	(CV1195) ...	—	272A	V.	CV2602	38
220OT	C.	(CV1118), PM22A	37	274A	V.WW.	CV2602, 4274A ...	38
220P	C.	(CV1020), PL2 ...	37	274B	V.	CV684	38
220PA	C.	(CV1022), LP2 ...	37	275A	V.	CV2604	38
220PT	C.	(CV1051) ...	37	278A	—	4278A ...	—
220RC	CI	(CV1312) ...	—	279A	V.	CV669	—
220SG	C.	(CV1018), Z21 ...	37	281A	—	— ...	38
220TH	C.	(CV1082), X24 ...	37	282A	V.	CV2065	—
220VS	C.	CV2582, PM12M	37	283A	—	— ...	38
220VSG	C.	(CV1028), PM12M	37	285	—	— ...	38
225DU	C.	CV1454	37 and Appendix II	286A	TT.	— ...	38
228A	V.	CV734, 4228A ...	—	290A	—	— ...	38
230	TT.	— ...	37	291A	—	— ...	38
230PT	C.	— ...	37	292A	—	— ...	38
230XP	C.	(CV1023), P2 ...	37	293A	V.	CV3829	38
231D	V.	CV2584 ...	37	296A	WL849	— ...	—
238B	—	PL5555 ...	—	300A	V.	CV2608, 4300A ...	133
239	—	CV1771 ...	—	300B	V.	CV2609	133
240B	C.	CV2586 ...	37	302THA	—	TH2321	38
240QP	C.	(CV1035), QP230	37	303	J.	CV2610	—
242A	—	ES85 ...	—	303A	—	CV2986	38
				304	J.HHH.VVV.	(CV1202)	—
				304AC	—	— ...	38
				304TH	YY.	CV2611	—

Commercial	Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
304TL	YY.		CV3580 ...	—
305D	—		WL801A ...	—
307A	V.		CV2612 ...	—
309A	—		— ...	38
310A	V.		CV2613 ...	38
310B	V.		CV1781 ...	38
311	—		4242A, 242B, 203A	—
311A	V.		CV2614 ...	38
311CH	—		TI00-I, 211H ...	—
311SU	C.		UY41 ...	38
313C	V.		CV2615, 4313C ...	—
314A	V.		CV2616 ...	—
316A	V.		CV683 ...	—
322A	V.		CV623 ...	—
323A	V.		CV2617 ...	—
324A	—		— ...	38
327A	—		CV2618 ...	—
327A	V.		CV926 ...	—
328A	V.CCC.		CV2619 ...	38
329A	V.		CV2620 ...	38
329L	—		— ...	38
330B	V.		CV2621 ...	—
331A	V.		CV2622 ...	—
332A	V.		CV2623 ...	—
332Pen	C.		(CV1401), CL33	38
336A	—		— ...	38
337A	V.		CV2624 ...	38
338A	V.		CV2625 ...	—
340A	V.		CV1782 ...	—
345A	—		— ...	38
346A	V.		CV2626 ...	—
347A	—		— ...	38
248A	TT		— ...	38
349A	V.		CV2726 ...	38
349B	V.		CV2628 ...	—
350A	V.		CV2629 ...	—
350B	V.		CV621 ...	39
351A	V.		CV2630 ...	39
351B	—		CV2630 ...	—
352A	V.		CV2631 ...	39
254A	V		CV2632 ...	—
354V	M.		(CV1173), (CV1037), 244V, A30D, AC/HL	39
357A	V.		CV691, 4357A ...	—
357B	—		3C24 ...	—
361A	—		— ...	39
362A	V.		CV2633 ...	39
367	M.		CV2634 ...	39
367A	—		— ...	39
368A	V.		CV710 ...	—
371B	WW		CV3511 ...	—
373A	TT.		— ...	39
374A	TT.		— ...	39
375A	—		CV2636 ...	133
381A	—		— ...	133
383A	—		— ...	39

Commercial	Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
385A	—		— ...	39
387A	—		— ...	39
388A	—		— CV2637	—
393A	H.VVV.HHH.		CV2638	—
394A	WW.HHH.		CV2639	—
	VVV.			
396A	—		— ...	133
400TDD	—		CV2521	—
401A	ZZ.J.		CV967, CV152, CV1597	39
401CAHA	J.		(CV389)	—
4020T	C.		— ...	39
402P	C.		— ...	39
402PenA	C.		— ...	39
402Pen	C.		CV1672	39
403A	TT.		— ...	39
403B	—		— ...	134
405BU	C.		CV2640	39 and Appendix II
406	—		— ...	39
407A	ZZ.TT.V.		— ...	39
408A	J.		CV2205	133
408BU	—		DW2 ...	39
408C	J.		CV2211	—
408CHA	J.		(CV2211)	—
409A	—		— ...	133
410LF	C.		(CV1152)	—
410HF	—		— ...	39
410P	—		— ...	39
410PT	C.		(CV1167)	133
410RC	—		— ...	39
410SG	—		— ...	39
412BU	—		— ...	39
412SU	—		— ...	39
415PT	—		— ...	39
415SP	—		— ...	39
415XP	C.		(CV1154)	—
417A	LL.ZZ.		CV2642	—
420T	—		CV2511	39
420XP	C.		(CV1040)	—
425PT	—		— ...	39
524XP	C.		(CV1655)	—
428T	—		CV812	—
431U	—		R2 ...	133
435A	—		— ...	39
436A	—		A2674 ...	—
437A	—		3A/I67M	39
441U	C.		R3 ...	39
442BU	C.		(CV1796), R2, DW4-350	39
446	—		CV3725	—
446A	—		CV932	39
446B	—		CV687	39
446C	J.		CV2272	—
450	—		— ...	39
450AC	—		— ...	39

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
450TH	VVV.LL.	CV2572 ...	—
451	—	— ...	133
451PT	C.	UL41 ...	39
451U	—	UL41 ...	40
460BU	C.	CV2644, R3, DW4-500	40
464A	—	CV688 ...	—
465D	J.	VCRX429 ...	—
471A	—	CV3586 ...	—
482A	—	— ...	40
482B	Q.S.	— ...	40
483	P.Q.S.	— ...	40
484V	M.	(CV1678) ...	40
485	I.QQ.S.T.Q.	— ...	40
486	—	— ...	40
490B	J.	VX3279 ...	—
490X	J.	VCRX340 ...	—
500	—	— ...	40
501	—	— ...	133
501AX	—	— ...	133
502AX	—	— ...	133
503AX	—	— ...	133
505AX	—	— ...	133
506	N	— ...	40
506AX	—	— ...	133
506BU	C.	CV2645, DW2, UI0	40
506K	—	— ...	40
506KB	—	— ...	133
507AX	—	— ...	133
509	—	— ...	40
511D	—	— ...	40
512AX	—	— ...	133
518AX	—	— ...	133
520AX	—	— ...	133
521AX	—	— ...	133
522	—	CV999 ...	—
522AX	—	— ...	133
523AX	—	— ...	133
525AX	—	— ...	133
526AX	—	— ...	133
527AX	—	— ...	133
528AX	—	— ...	133
532	LL.	CV2647 ...	—
532A	LL.	CV2648 ...	—
532DX	—	— ...	133
533DX	—	— ...	133
536DX	—	— ...	133
537AX	—	— ...	133
538A	—	— ...	40
539DX	—	— ...	133
514DX	—	— ...	133
542A	—	— ...	40
542DX	—	— ...	133
542DXS	—	— ...	133
543A	—	— ...	40
544A	—	— ...	40
544DX	—	— ...	133

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
546A	—	— ...	40
546DX	—	— ...	133
547A	—	— ...	40
547DX	—	— ...	133
548A	—	— ...	40
548DX	—	— ...	133
549A	—	— ...	40
550A	—	— ...	40
553AXA	—	— ...	134
560BU	—	CV2645 ...	—
569AX	—	— ...	134
573AX	—	— ...	134
574AX	—	— ...	134
576	—	CV3749 ...	—
578	—	CV2967 ...	—
605	—	— ...	40
608CX	—	— ...	134
610XP	C.	(CV1154) ...	—
612BU	—	— ...	40
615	—	CV3506 ...	40
616	—	KT66 ...	—
619XC	—	— ...	134
620T	—	— ...	40
635P	C.	(CV1208) ...	—
351PI	—	(CV220) ...	—
665GTX	—	— ...	40
664	GGG.	CV670 ...	—
648PI	—	CV746 ...	—
651	—	PL5552A ...	—
652	—	PL5551A ...	—
653B	—	CV666 ...	—
657	—	PL5551A, 652 ...	—
660	—	— ...	40
660T	—	— ...	134
672	—	3V/390A ...	—
676	—	3V/490A ...	—
680XP	—	— ...	40
700A	V.	CV689 ...	—
700B	V.	CV695 ...	—
700C	V.	CV696 ...	—
700D	V.	CV699 ...	—
701A	V.J.	CV677, CV279 ...	—
702A	V.	CV678 ...	—
703A	V.	CV679 ...	—
705A	V.R.	CV3587 ...	—
706A	V.	CV3588 ...	—
707A	V.	CV3589 ...	—
707B	V.	CV1768 ...	—
708A	V.	CV3590 ...	—
709A	V.	CV2652 ...	—
710A	V.	(CV62) ...	—
713A	V.	CV3593 ...	40
714AY	V.	CV2653 ...	—
715A	—	CV2654 ...	—
715B	—	CV2655, P535/IE ...	—
715C	—	CV598 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
717A	V.	CV2594 ...	40
719A	—	CV3596 ...	—
720C	V.	CV3907 ...	—
721A	V.	CV3595 ...	—
722A	V.	CV3596 ...	—
723A	V.	CV720 ...	—
723A/B	V.N.	CV1795, KS9-20	—
724A	V.	CV2656 ...	—
724B	V.	CV1793 ...	—
725A	V.	CV722 ...	—
726A	V.	CV676 ...	—
726B	V.	CV3597 ...	—
726C	V.	CV3644 ...	—
729A	—	(CV539) ...	—
731A	V.	(CV850) ...	40
732A	V.	CV812	Appendix II
800	U.P.C.S.R.	CV2657 ...	—
801	—	CV621 ...	—
801A	LL.	CV621 ...	—
802	P.L.L.	CV622 ...	40
803	P.L.L.	CV623 ...	—
804	P.	CV624, 4052A ...	—
805	P.U.L.L.I.	CV625, T100-I ...	40
806	P.L.L.	CV2658 ...	—
807	T.C.U.R.L.L.A.	(CV124), (CV1060), (CV1572, (CV1374), QV05-25	40
807W	—	CV3809 ...	40
808	P.U.L.L.	CV626 ...	—
809	P.L.L.	CV2660 ...	—
810	P.L.L.	CV627 ...	—
811	P.W.W.	CV628 ...	—
812	P.W.W.	CV2661 ...	—
813	R.C.L.L.	(CV25), QY2-100, C143	—
814	P.	CV629 ...	—
815	P.L.L.	CV2663 ...	—
816	P.W.W.	CV724 ...	40
822	—	CV2664 ...	—
825	P.	CV2665 ...	40
825BU	—	— ...	40
826	P.L.L.	CV630 ...	—
828	P.R.L.L.	CV631 ...	—
829A	—	CV3599 ...	—
829B	LL.NN.	(CV2666), QQV07-40	134
830B	—	CV702 ...	—
832	P.	(CV1088) ...	134
832A	P.L.L.NN.	CV788, QQV04-15	134
833	P.	CV635 ...	—
833A	P.L.L.	CV635, TY4-350, ES833	—
836	—	CV636 ...	40
837	—	CV637 ...	134
838	P.L.L.	CV638 ...	—
840	—	— ...	40
841	—	CV906 ...	134

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
842	P.I.	— ...	41
843	P.	CV639 ...	41
845	P.L.L.	CV735, T100-I ...	—
845W	—	CV3646 ...	—
846	P.	CV2668 ...	—
849	P.L.L.	CV2669 ...	—
849H	P.	CV2670 ...	—
851	P.I.	PCV2671 ...	—
852	P.	CV2672 ...	—
857	—	DQ7 ...	—
857B	P.I.CCC.	CV2673, DQ7 ...	—
859	—	CV2779 ...	—
860	P.	CV640 ...	—
861	P.	CV641 ...	—
863	P.	CV2674 ...	—
864	P.	CV2675 ...	41
865	P.	CV2676 ...	—
866	P.R.I.	(CV32) ...	—
866A	P.R.W.W.	(CV32), RG3-250A, DQ2, GUI2	—
866JR	P.W.W.	CV2679 ...	—
868	LL.P.	CV2680 ...	—
868/PJ23	—	(CV2680) ...	—
869B	I.CCC.	CV2723, DQ6, ESUIII	—
871	—	— ...	41
872	R.	CV642 ...	—
872A	W.W.M.R.I.	DQ4, CV1449, CV642	—
872AX	—	DGC5/5000GB	—
873	—	TQ4 ...	—
874	—	CV643 ...	—
875A	HHH.	CV644 ...	—
876	—	CV645 ...	—
878	—	CV2683 ...	—
878A	—	CV2683 ...	—
879	T.	CV597, 2X2 ...	41 & Appendix II
880	I.	CV2685, 5658 ...	—
884	T.	CV647 ...	41
885	—	CV648 ...	41
889	—	CV2686, ESW5000 ...	—
889R	—	(CV2687), ESA5000	—
889RA	I.L.L.	(CV2687) ...	—
891	LL.CCC.	CV2688, ESW891	—
892R	LL.CCC.	CV904 ...	—
893R	—	CV2689 ...	—
901A	J.	CV1587 ...	—
902A	J.	CV2310 ...	—
902M	J.	CV2244 ...	—
902PI	—	CV3600 ...	—
904V	M.	CV2690, MH41 ...	41
905	P.	CV736 ...	—
906	P.	CV737 ...	—
906PI	P.	CV602 ...	—
908A	J.	CV2310 ...	—
908C	J.	VCRX204 ...	—
913	P.	CV2691 ...	—

Commercial		Equivalent (or nearest in brackets)	Page	Commercial		Equivalent (or nearest in brackets)	Page
Valve	Manufacturer			Valve	Manufacturer		
918	LL.P.	CV2692 ...	—	1238	S.	— ...	134
919M	J.	CV420 ...	—	1247	S.	— ...	41
927	P.LL.	(CV405), 55CG ...	—	1252W	J.	CV2464 ...	—
929	P.LL.	CV2693 ...	—	1257	—	PL5559 ...	—
930	P.LL.	CV2694 ...	—	1267	M.	CV1992, Z300T ...	—
930B	—	CV702 ...	—	1273	S.	— ...	41
931	P.	CV2695 ...	—	1274	S.	— ...	41
931A	P.LL.	CV2696, 27MI ...	—	1275	S.	— ...	41
935	P.	CV2697 ...	—	1276	S.	— ...	41
946A	J.	CV1521 ...	—	1280	S.	— ...	41
951	—	— ...	41	1282	—	CV902 ...	41
953	P.	CV738 ...	—	1284	S.	— ...	41
954	—	(CV1095) ...	134	1288	—	— ...	41
956	U.	CV649 ...	134	1291	TT.S.	— ...	41
957	—	CV2700 ...	134	1292	—	— ...	41
958	—	CV650 ...	—	1293	S.	— ...	41
958A	—	CV2601 ...	134	1294	—	CV2709 ...	41
959	—	CV1794 ...	134	1295	—	WL632B ...	—
965K	J.	CV2230 ...	—	1299	P.	CV815 ...	42
966	—	DCG4/1000G ...	—	1378X	—	CV761 ...	—
966A	—	DQ2 ...	—	1500T	YY.VVV.	CV2711 ...	—
967	—	PL5557, TQ2 ...	—	1547	—	(CV2789) ...	—
972	—	(CV642), DQ4 ...	—	1560	—	— ...	42
972A	—	DQ4 ...	—	1561	N.	(CV1064), DW4-500 ...	42
973	—	TQ4, 873 ...	—	1562	—	— ...	42
895	—	— ...	41	1601A	I.	CV1385 ...	—
896	—	— ...	41	1601ABC	K.J.	(CV440) ...	—
991	P.	CV651 ...	—	1601E	J.	CV440 ...	—
994V	M.	— ...	41	1601M	J.	VCRX266 ...	—
1000UHF	—	WLI1000T ...	—	1602	P.	— ...	42
1002	—	— ...	41	1603	P.	CV652 ...	42
1005	—	CV2874 ...	134	1608	J.	— ...	42
1006	—	— ...	134	1608A	J.	CV1391 ...	—
1007	—	— ...	41	1609	P.	CV2712 ...	42
1011	—	— ...	41	1610	CV2713	CV2713 ...	42
1028	—	— ...	41	1611	P.	CV653 ...	42
1043	D.	(CV1097) ...	—	1612	P.LL.	CV654 ...	42
1048	N.	68530 ...	—	1252W	J.	CV2464 ...	—
1103	—	— ...	41	1257	—	PL5559 ...	—
1130	—	— ...	41	1267	M.	CV1992, Z300T ...	—
1163	N.	68506 ...	—	1273	S.	— ...	41
1164	—	68508 ...	—	1274	S.	— ...	41
1201	P.	CV2704 ...	41	1275	S.	— ...	41
1201A	P.	CV2704 ...	—	1276	S.	— ...	41
1203	P.	CV2705 ...	41	1280	S.	— ...	41
1203A	TT.S.	— ...	41	1282	—	CV902 ...	41
1204	S.	— ...	41	1284	S.	— ...	41
1206	S.	— ...	41	1288	—	— ...	41
1221	S.	— ...	41	1291	TT.S.	— ...	41
1222	S.	— ...	41 & 134	1292	—	— ...	41
1223	S.	— ...	41	1293	S.	— ...	41
1229	—	(CV711) ...	—	1294	—	CV2709 ...	41
1230	S.	— ...	41	1295	WL632B	— ...	—
1231	—	CV2707 ...	41	1299	P.	CV815 ...	42
1232	S.	— ...	41	1378X	—	CV761 ...	—
1236A	S.	— ...	134	1500T	YY.VVV.	CV2711 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
1547	—	(CV2789) ...	—
1560	—	— ...	42
1561	N.	(CV1064), DW4-500	42
1562	—	— ...	42
1601A	I.	CV1385 ...	—
1601ABC	K.J.	(CV440) ...	—
1601E	J.	CV440 ...	—
1601M	J.	VCRX266 ...	—
1602	P.	— ...	42
1603	P.	CV652 ...	42
1608	J.	— ...	42
1608A	J.	CV1391 ...	—
1609	P.	CV2712 ...	42
1610	P.	CV2713 ...	42
1611	P.	CV653 ...	42
1612	P.LL.	CV654 ...	42
1613	P.	CV655 ...	42
1614	P.	CV2714 ...	42
1616	—	CV656 ...	42
1619	P.	CV723 ...	42
1620	P.LL.	CV657 ...	42
1621	P.LL.	— ...	42
1622	P.LL.	CV658 ...	42
1624	I.J.TT.	— ...	42
1625	P.A.	CV659 ...	42
1626	P.Y.	CV1755 ...	42
1629	P.A.	CV1756 Appendix I	—
1630	P.	CV2715 ...	—
1631	P.	— ...	42
1632	P.TT.	— ...	42
1633	P.TT.	— ...	42
1634	P.	— ...	42
1635	P.LL.	— ...	42
1637	P.	(CV1052) ...	42
1638	—	— ...	42
1639	—	— ...	42
1641	J.TT.	— ...	42
1642	—	CV875 ...	42
1644	P.	— ...	42
1646A	J.	CV966 ...	—
1649	—	— ...	42
1652M	J.	CV1530 ...	—
1654	T.P.Y.TT.	— ...	42
1655	—	CV2716 ...	42
1658M	J.	CV307 ...	—
1659	—	— ...	42
1662	—	— ...	42
1664	—	— ...	42
1672	—	— WL172 ...	—
1701	FFF.	— ...	42
1701(thry)	—	PL5557 ...	—
1729	M.	CV2717 ...	—
1754	—	CV3518, 5948 ...	—
1801	M.	— ...	42
1805	N.FFF.	— ...	42
1805PI	P.	CV832 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
1806PI	—	CV817 ...	—
1807	—	— ...	41
1908PI	P.	809/CV1783 ...	—
1810	—	— ...	42
1813P7	—	CV884 ...	—
1814PI	N.	CV790 ...	—
1815	N.	— ...	43
1817	N.	— ...	43
1821	N.	(CV1443,) DW2	43
1823	—	— ...	43
1831	N.	— ...	43
1832	N.P.FFF.	— ...	43
1851	P.	CV599 ...	43
1852	P.	CV660 ...	43
1853	P.	CV1873 ...	43
1861	N.	(CV1039), IW4-500	43
1867	—	IW4-350 ...	43
1868	—	— ...	134
1875	N.FFF.	— ...	43
1876	N.	CV2718 ...	43
1877	FFF.	HVR2 ...	43 & Appendix II
1881A	—	— ...	134
1882	—	— ...	43
1883	—	— ...	43
1884	—	— ...	134
1904	—	3V/390A ...	—
1907	—	CV3521, XH25-500	—
1909A	N.	(CV2291) ...	—
1924	—	CV2719 ...	—
1960	—	CV1792 ...	—
1971	—	WL207 ...	—
2000	E.	68506, 1163 ...	—
2000T	—	CV998 ...	—
2050	LL.	CV2565, EN32, 20A2	—
2051	LL.T.	CV1798, 20A2 ...	43
2100A	—	WL8020 ...	—
2101	A.C.N.	— ...	43
2102	A.C.N.	— ...	43
2103	A.C.QQ.	— ...	43
2151	A.C.QQ.	— ...	43
2211BRA	J.	(CV439) ...	—
2218BRA	J.	(CV439) ...	—
2269Y	J.	CV2463 ...	—
2318	—	— ...	43
2506	—	— ...	43
2501A3	EEE.	CV602 ...	—
2505A5	EEE.	CV740 ...	—
2511A5	EEE.	CV741 ...	—
2529A5	EEE.	CV1791 ...	—
3006	—	— ...	43
3025	—	CV2722 ...	—
3041A	—	— ...	134
3069	—	866A, DCG4/1000G	—
3070	—	872A, DCG5/5000GB	—
3071	—	CV2723, 869B ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
3072	—	WL857B ...	—	4046A	R.	(CV244) ...	—
3074A	—	— ...	43	4047B	R.	CVI600 ...	—
3075A	—	— ...	43	4049C	R.	(CVI355) ...	—
3078	—	DCG9/20, 6508 ...	—	4049D	R.	(CV5), AH221, GU20/2I	—
3209	C.	CV2725 ...	—	4050AG	R.	CV2745 ...	—
3220K	C.	(CV954) ...	—	4052A	R.	(CVI081) ...	—
3226D	C.	CV2727 ...	—	4053	K.	(CV950) ...	—
3226J	C.	CV2786 ...	—	4053A	J.	(CV967) ...	—
3229D	C.	CV2728 ...	—	4056A	R.	(CVI025) ...	—
3263DS	C.	CV2731 ...	—	4059A	R.	(CVI611) ...	—
3310A	—	— ...	134	4060A	R.	(CVI030) ...	—
3311A	—	— ...	134	4061A	R.	(CVI369) ...	44
3328A	—	— ...	134	4062A	R.	(CVI568) ...	—
3329A	—	— ...	43	4064A	R.	CV2746, DQ4A	—
3481	—	— ...	43	4064B	R.	CVI449, 872A, DQ4	—
3530	N.	(CV405) ...	—	4066A	R.	(CVI181) ...	—
3572	—	866A, DCG4/1000G	—	4069A	R.	(CVI372), RK28	—
3720	—	— ...	43	4074A	R.	(CVI8) ...	44
3861B	—	QEL 150 ...	—	4074B	R.	(CVI573) ...	44
3871	—	— ...	43	4077A	R.	(CV33) ...	44
3872	—	— ...	43	4078A	R.	CVI420 ...	—
3873	—	— ...	43	4078GA	R.	(CV447) ...	—
3874A	—	QB2-250, 813 ...	—	4081	R.	CV2749 ...	—
3885	—	DCX4/1000 ...	—	4081A	R.	CVI797 ...	—
3921	—	— ...	43	4264A	—	— ...	134
3924	—	— ...	43	4313C	R.	(CV75) ...	—
3945	—	845 ...	—	4316A	R.	CV683 ...	—
3951	—	CV2733 ...	—	4317	M.	(CVI201) ...	—
3982	—	(CV2680) ...	—	4328A	R.	CV2619 ...	44
4003A	R.	CV2743 ...	—	4328D	R.	(CV245) ...	44
4004B	R.	(CV2329) ...	—	4357A	M.R.	(CV27), 357	—
4006A	R.	(CVI600) ...	—	4378	N.	CVI254 ...	—
4008A	R.	(CVI601) ...	—	4407	J.	(CVI084) ...	—
4011A	R.	CVI415 ...	—	4409	J.	(CV995) ...	—
4012A	R.	CVI445 ...	—	4410	J.	(CVI087) ...	—
4013C	R.	(CVI605) ...	—	4412E	—	VI505 ...	—
4014A	R.	(CVI603) ...	—	4502	J.	(CVI086) ...	—
4015A	R.	CV2735 ...	—	4602	J.	(CV956) ...	—
4017B	R.	CVI446 ...	—	4605	J.	(CVI085) ...	—
4018G	R.	(CVI733) ...	—	4606	—	CV2764 ...	—
4019A	R.	(CV249) ...	43	4607	J.	(CV690) ...	—
4019B	R.	(CVI655) ...	43	4608	J.	(CVI511) ...	44
4020A	R.	(CVI653) ...	43	4610	—	— ...	44
4020B	—	(CVI657) ...	43	4611	—	— ...	134
4021A	R.	(CVI671) ...	43	4612	—	— ...	134
4021B	R.	(CVI663) ...	43	4613	—	— ...	44
4022AR	R.	(CVI664) ...	43	4614	—	— ...	44
4022B	R.	(CVI659) ...	—	4618	—	— ...	44
4030A	R.	CVI447 ...	—	4619	—	— ...	44
4030D	R.	CVI447 ...	—	4623	—	— ...	134
4033A	R.	(CVI220) ...	43	4631	N.FFF.	— ...	44
4033AF	R.	CV2743 ...	43	4635	—	— ...	134
4033L	R.	(CVI688), (CVI220)	43	4636	N.FFF.	— ...	44
4037A	—	— ...	43	4650	—	— ...	44
4043C	R.	(CVI448) ...	—	4651	—	— ...	134
4045A	R.	(CV243) ...	134				

Commercial Valve	Equivalent (or nearest in brackets)	Page
4652	FFF.	44
4654	N.FFF.	44
4654K	—	44
4654P	—	134
4655	—	44
4657	N.FFF.	44
4670	FFF.	44
4671	M. (CV1059)	—
4672	M. (CV4695)	—
4673	M. CV2765	44
4678	—	Appendix I
4679	—	44
4682	N.FFF.	44
4683	N.FFF.	44
4684	N.	44
4687	M. CV2766	—
4687	M. CV2766	—
4688	N.FFF.	44
4689	—	134
4690	CV2767	—
4694	N.FFF.	44
4696	—	134
4699	N.FFF.	44
4710A	CV677	—
4702A	CV678	—
4703A	CV679	—
4705A	CV3587	—
4706	CV3588	—
4707A	CV3589	—
4708A	CV3590	—
4713A	CV3593	—
4717A	CV3594	—
4712A	CV3595	—
4722A	CV3596	—
4726A	CV676	—
5215A	D. (CV1081)	—
5222	—	134
5516	Y.	44
5517	Q. CV2609, CK1013	—
5544	I.M. (CV2210), XRI-3200, TX2/3	—
5545	I.R.M. (CV2215), XRI-6400, 5685, TX2/6.	—
5556	I. CV2640	44
5557	LL.VVV.I.P. CV2957, XG5-500, HHH.KK. TQ2	—
5559	— XGI-2500, 571	—
5586	Q. CV3611	—
5590	ZZ.I.Y.S.II.	44
5591	ZZ.I.Y.S.II.	44
5603	TT.II.	44
5608	I.S.T.Q.	44
5610	I.TT.	44
5618	P.Y.J.	44
5620	— 4004B	—
5626	I. (CV298)	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
5628	I.	CV2952	—
5629	I.	CV2662	—
5632	—	PL5632, C3J	—
5635	S.	—	44
5636	I.P.S.M.BBB. PPP.	CV3928	44
5637	I.S.	—	44
5639	S.T.BBB.PPP.	—	44
5640	I.S.PPP.	—	45
5641	S.	(CV473)	45
5642	T.S.P.	(CV2241)	134
5643	S.DDD.PPP.	CV474, EM70	—
5644	M.S.	CV3987	—
5645	S.	—	134
5646	S.	—	135
5647	S.	CV3916	45
5651	P.M.	CV2573, CV449, QSI209	—
5651WA	G.	CV4008	—
5654	A.N.Q.T.LL.	CV4010, 6AK5WA	45
5656	Q.	CV2970	45
5657	Q.	CV3958	—
5659	I.	—	45
5660	I.	—	45
5661	I.	—	45
5663	I.	CV3610	—
5664	Z.	CV1765	—
5667	BB.CCC.	(CV2687)	—
5670	I.ZZ.I.LL.	CV4013	45
5672	Q.	(CV2238), DL620	45
5675	P.	CV2971	—
5676	Q.	(CV2239)	45
5678	Q.	CV2254, DF60	45
5679	I.S.	—	45
5683	Z.	CV2574, 6014	—
5684/ C3J/A	Z.HHH.VVV. KK.	CV2753, 6011	—
5685/ C3J/A	Z.HHH.VVV.	CV2574	—
5686	Q.P.LL.PPP.	CV3612	45
5687	I.P.LL.	CV2578	45
5690	P.T.	—	45
5691	P.LL.	CV3705	45
5692	P.LL.	CV3942	45
5693	P.LL.	CV3699	45
5694	S.Q.	—	45
5696	P.N.	CV3512, EN92	—
5702	Q.	CV3895	135
5703	S.Q.	—	135
5704	Q.	CV2874	135
5718	PPP.N.S. M.LL.	CV3930	45
5719	PPP.S.	CV4008	45
5721	Q.	—	45
5722	Y.S.	—	45

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
5725	Q.LL.	CV4011, M8196, 6AS6W ...	45
5726	T.LL.A.N.Q. BBB.	CV4007, EAA901S, 6AL5W	45
5727	I.	CV4018, 2D2I	—
5732	CC.	— ...	45
5744	S.Q.	— ...	135
5749	A.Q.LL.	(CV4009), 6BA6W	45
5750	A.I.P.LL.	(CV4012), 6BE6W	45
5751	I.LL.	CV4017 ...	45
5755	V.	CV3755 ...	45
5762	—	BTL2-I ...	—
5763	A.P.	(CV2129), QV03-I2	45
5771	—	BW165 ...	—
5783	Q.PPP.	CV3933 ...	—
5783WA	—	M8190, CV4066, CV3960	—
5784	Q.	CV3986 ...	135
5785	S.Q.	— ...	135
5787	Q.	CV3897 ...	—
5796	LL.	CV3706, XRI-1600	—
5797	I.T.	— ...	45
5798	I.	— ...	135
5799	MM.	CV2678 ...	—
5800	MM.	(CV2730) ...	—
5812	Y.	— ...	45
5814	I.	CV4016 ...	45
5814A	—	— ...	135
5814WA	—	CV4032 ...	—
5823	—	Z900T, CV5122	—
5824	I.S.	— ...	45
5825	P.I.	— ...	45
5829	Q.	CV3998 ...	—
5838	DDD.S.T.	— ...	45
5839	DDD.TT.S.T.	— ...	45
5840	M.S.LL.	CV3929 ...	45
5842	V.PPP.	CV3789 ...	45
5844	I.Y.LL.	— ...	45
5845	Y.S.DDD.	— ...	45
5846	LL.JJ.	CV2859 ...	—
5847	LL.	CV3905 ...	45
5851	S.T.A.	— ...	46
5852	DDD.T.	CV3943 ...	46
5855	—	XRI-12 ...	—
5861	M.N.	(CV273), TD03-10 DET22	—
5866	—	TB2, 5-300, TY2-125, CV1924	—
5867	—	TB3/750, TY3-250, CV1350	—
5868	—	TB4/1250, TY4/500, CV1351	—
5870	—	DCG12/30 ...	—
5871	S.C.C	— ...	135
5873	Q.	— ...	46
5876	PPP.	CV2972 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
5879	P.Y.S.LL.	— ...	46
5881	I.P.S.TLL..	— ...	46
5886	Q.	(CV495) ...	—
5894	M.N.KK.	(CV424), (CV2797), QQV06-40A	46
5894A	M.N.	CV2797 ...	46
5895	—	QQC04-15, QQZ04-15, CV1835	—
5896	S.PPP.	CV2698 ...	46
5897	S.T.	— ...	46
5898	S.T.	— ...	46
5899	S.M.PPP.	(CV147) ...	46
5900	S.T.	— ...	46
5901	S.T.	— ...	46
5902	S.M.PP.	CV4029 ...	46
5903	S.T.	— ...	46
5904	S.	— ...	135
5905	S.T.	— ...	46
5906	S.T.	— ...	46
5907	S.T.	— ...	46
5908	S.T.	— ...	46
5910	Y.S.Q.	— ...	46
5915	I.P.Y.S.LL.	EH900 ...	46
5916	S.T.	— ...	46
5920	Y.KK.	E90CC... ...	46
5923	—	TBW6/6000, TY6-5000W	—
5924	—	TBL6/6000, TY6-5000A	—
5930	S.T.	— ...	46
5931	S.T.	— ...	46
5932	S.	CV3899 ...	46
5933	S.	CV3517 ...	46
5939	LL.	CV3545 ...	—
5947	DDD.	— ...	46
5948	HH.	CV3518 ...	—
5949	HH.	CV3521, XH25-500	—
5961	CC.	— ...	46
5962	G.Q.	CV2383 ...	—
5963	P.LL.	CV3900 ...	46
5964	P.Y.TT.S.LL.	— ...	46
5965	I.P.A.Y.LL.	— ...	46
5967	Q.	— ...	46
5968	—	— ...	46
5969	—	— ...	46
5970	—	— ...	135
5971	—	— ...	135
5972	—	— ...	135
5975	—	— ...	135
5976	—	KS7-85A ...	—
5977	S.T.	— ...	46
5987	S.T.	— ...	46
5992	TT.DDD.T.	— ...	46
5993	Y.TT.T.DDD.	— ...	46
5995	—	— ...	135
5998	T.FF.II.	— ...	46

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6002	Q.	CV3902 ...	—
6004	Y.S.	— ...	46
6005	I.LL.	CV4019, M8245, 6AQ5W	46
6006	CCC.	— ...	46
6007	N.KK.	DL67 ...	46
6008	N.KK.	DF67 ...	46
6021	PPP.I.T.M.P. TT.S.BBB.	CV3986 ...	47
6024	S.	CV3539 ...	—
6026	P.	— ...	47
6027	G.S.	CV3997, JP9-15	—
6028	ZZ.V.Y.BBB.	— ...	47
6030	S.	— ...	47
6038	S.	CV3628 ...	—
6042	A.	— ...	47
6045	Y.S.	— ...	47
6046	I.S.	— ...	47
6049	S.Q.	— ...	135
6051	—	— ...	135
6052	S.T.	— ...	47
6053	S.	— ...	47
6055	—	— ...	135
6056	—	— ...	135
6057	A.	(CV4004) ...	47
6058	A.	(CV4025) ...	47
6059	A.	(CV4006) ...	47
6060	A.	(CV4024), M8126	47
6061	A.	CV1043 ...	47
6062	A.	CV4039 ...	47
6063	A.	(CV4005) ...	47
6064	A.	(CV4014) ...	47
6065	A.	(CV4015) ...	47
6066	A.Y.	— ...	47
6067	A.	(CV4003), M8136	47
6072	I.Y.T.LL.	— ...	47
6073	P.	CV2903 ...	—
6074	P.	(CV4028) ...	—
6075	—	KPW5/3500, QY5-3000W, CW1100	—
6076	—	K57-85A, QB15/3500, QY5-3000A, CR1100	—
6077	—	TBW12/100, TY12-50A	—
6078	—	TBL12/100, TY12-50W	—
6079	KK.	CV35222, QY5-500	—
6080	PPP.LL.I.M. P.T.FF.	CV2984 ...	47
6082	P.	— ...	47
6083	—	PE1/100 ...	—
6084	N.C.	CV2729, E80F	47
6085	N.Y.	E80CC ...	47
6086	Y.N.	— ...	47
6087	I.	— ...	47
6088	Q.	CV2699 ...	135
6092	—	— ...	135
6094	TT.Y.T.DDD	— ...	47

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6095	—	(CV4019) ...	47
6096	—	(CV4010) ...	47
6097	—	(CV4007) ...	47
6098	T.	— ...	47
6099	T.Y.TT.	— ...	47
6100	A.	CV4022, CV4058	47
6101	P.	(CV4031), 6J6WA	47
6106	DDD.	CV2992 ...	47
6110	S.T.	— ...	47
6111	P.S.PPP.	CV3961 ...	47
6112	I.S.T.	— ...	47
6113	AA.	— ...	47
6117	JJ.	CV3906 ...	—
6118	CC.	— ...	47
6125	I.	— ...	48
6130	HH.P.	CV3629, 3C45 ...	—
6131	—	CV3632 ...	—
6132	A.	CV4055 ...	48
6134	I.	— ...	48
6135	CV4022	CV4022 ...	48
6136	P.I.LL.	CV2990 ...	48
6137	I.T.	— ...	48
6145	S.	— ...	48
6146	P.LL.A.NN.	CV3523, QV06-20	48
6147	T.	— ...	48
6149	—	— ...	135
6151	—	— ...	135
6152	—	— ...	135
6153T	M.	— ...	48
6155	KK.	(CV2130), QY3-125	—
6156	KK.	(CV2131), QY4-250	48
6157	A.Y.	— ...	48
6158	A.	CV4068 ...	48
6159	P.LL.	— ...	48
6169	AA.	— ...	135
6161	—	CV3901 ...	—
6180	A.	— ...	48
6186	P.T.	— ...	48
6187	—	(CV4011), M8196	48
6188	T.	— ...	48
6189	NN.P.T.LL.	I2AU7WA ...	48
6197	P.Y.	— ...	48
6199	—	I50AVP ...	—
6201	N.I.LL.	CV3508, ECC801S	48
6206	I.Y.	— ...	48
6203	I.Y.	— ...	48
6205	I.S.M.BBB.T.	CV2432 ...	48
6206	C.P.	— ...	135
6211	M.I.LL.	— ...	48
6215	I.	— ...	48
6216	Y.	— ...	48
6218	—	E80T ...	—
6222	—	— ...	135
6227	N.	E80L ...	48
6247	Q.	— ...	48

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6252	KK.	CV2799, QQV03-20A, TT20	135
6265	I.Y.	— ...	48
6267	N.U.Y.EE.	CV2901, EF86, Z729	48
6268	—	CV1787, 4C35, AX9911, XH8-100	—
6279	—	CV2520, 5C22, AX9912, XH16-200	—
6281	—	— ...	135
6286	—	— ...	135
6287	Y.S.	— ...	48
6291	—	150AVP, 6199	—
6293	P.	— ...	48
6302	—	— ...	48
6305	Y.A.	2T/270K	48
6325	DD.	— ...	48
6327	T.	— ...	48
6336	FF.T.	— ...	48
6336A	—	— ...	135
6350	Y.S.	— ...	48
6351	—	— ...	135
6352	S.	— ...	135
6354	—	150B2, QSI200, CV2225	—
6360	KK.	CV2798, QQV03-10	135
6370	—	CV5106, E1T	—
6373	—	DL70, CV2105	—
6374	Y.M.	EY84, CV2235	48
6375	M.	DC70, CV2295	48
6384	—	— ...	135
6385	DDD.Y.TT.	— ...	48
6386	I.Y.	— ...	48
6391	—	EF74, CV476	—
6394	FF.T.	— ...	48
6486/A	—	— ...	135
6497	Q.	— ...	49
6410	Q.I.	CV3903	—
6414	Y.P.I.	— ...	49
6417	—	— ...	135
6418	—	— ...	135
6443	A.Y.N.	— ...	49
6463	I.Y.M.N.	— ...	49
6485	Q.	— ...	49
6488	M.	EF73, CV466	49
6489	M.	EA76, CV469	49
6516	A.	CV4063	49
6520	FF.	— ...	49
6524	P.	— ...	49
6526	—	— ...	135
6528	—	— ...	135
6533	—	— ...	135
6535	—	— ...	135
6538	—	Z800U, CV2236...	—
6539	—	X801U, CV2255	—
6550	T.	KY88, EL34	49
6574	—	EN32	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6582A	—	— ...	136
6611	—	— ...	136
6612	—	— ...	136
6617	—	TBW12/25, TY12-25W	—
6618	—	TBL12/25, TY12-25A	—
6627	PPP.	OB2WA	—
6660	I.Y.	— ...	49
6661	I.Y.	— ...	49
6662	I.Y.	— ...	49
6663	I.Y.	— ...	49
6669	I.Y.	— ...	49
6677	I.Y.	— ...	49
6678	—	— ...	136
6679	I.Y.	— ...	49
6680	I.Y.	— ...	49
6681	I.	— ...	49
6686	GG.	E81L	49
6687	GG.	E91H	49
6688	GG.	E180F, CV3988	49
6689	GG.	E83F	49
6690	S.QQ.	— ...	136
6693	—	DCG6/18, RG4-3000	—
6697	BB.	— ...	49
6700	EX	ET51	—
6754	—	— ...	136
6760	Y.ZZ.OO.	— ...	49
6761	ZZ.Y.OO.	— ...	49
6778	—	EC70, CV468	—
6779	M.	CV2434, Z803U...	—
6788	S.	— ...	136
6814	S.	— ...	136
6829	I.	— ...	49
6832	—	— ...	136
6840	—	— ...	136
6850	P.	— ...	49
6851	—	— ...	136
6854	—	— ...	136
6866	—	E702	—
6870	A.	CV5121	49
6872	—	— ...	136
6877	—	— ...	136
6883	P.	— ...	49
6887	P.	— ...	136
6888	—	— ...	136
6893	P.	— ...	49
6900	—	— ...	136
6907	—	— ...	136
6913	S.	— ...	136
6919	I.	— ...	136
6922	—	E88CC...	—
6923	—	EA52, CV5140	—
6927	OO.	— ...	49
6928	OO.	— ...	49
6939	—	QQE02-5QQV02-6, CV2466	136
6943	—	— ...	136

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
6944	—	— ...	136
6945	—	— ...	136
6946	—	— ...	136
6947	—	— ...	136
6948	—	— ...	136
6954	—	— ...	136
6955	Y.	— ...	49
6960	—	QBW7/800, TY7-600W	—
6961	—	QBL7/800, TY7-6000A	—
6968	—	— ...	136
6972	—	JP9-75	—
6973	P.	— ...	136
6977	—	DM160	—
7000	—	— ...	49
7001	—	M8167	—
7004	—	TBL2/300, TD2-300A	—
7025	P.	— ...	136
7027	P.	— ...	136
7028	—	JP9-2.5	—
7032	A.	— ...	136
7034	—	QVI-150A, CV2519	—
7035	—	4XI 50D	—
7036	—	5915A ...	136
7044	—	— ...	—
7054	P.	— ...	136
7055	P.	— ...	136
7056	P.	— ...	136
7057	P.	— ...	136
7058	P.	— ...	136
7059	P.	— ...	136
7060	P.	— ...	137
7061	P.	— ...	137
7062	—	E18.CC	137
7090	—	JP2-0.2D	—
7091	—	JP2-2.5A	—
7092	—	TB5/2500, TY6-800	—
7118	—	E181CC	137
7119	—	E182CC	137
7125	—	EBF89 ...	137
7136	—	DCG6/18GB	—
7137	—	— ...	137
7150	—	— ...	137
7167	—	— ...	137
7184	—	— ...	49
7189	—	— ...	—
7199	—	— ...	137
7212	—	— ...	137
7227	R.	— ...	137
7244	S.	— ...	137
7245	—	— ...	137
7247	—	— ...	137
7258	—	— ...	137
7292	—	JN2-2.5W	—
7320	—	— ...	137
7355	—	— ...	137
7358	—	— ...	137

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
7408	—	— ...	137
7432	M.	CV4501	—
7433	M.	CV4502	—
7434	M.	CV4503	—
7435	M.	CV4504	—
7436	M.	CV4505	—
7437	M.	CV4057	—
7438	M.	CV4508	—
7457	M.	(CV1070), (CV188)	—
7581	—	— ...	137
7700	—	— ...	49
7752	—	— ...	49
7755	—	— ...	49
7756	—	— ...	49
8001	—	CV824	—
8003	P.LL.	CV2768, T100-I	—
8008	—	DCG5/5000G2	—
8008AX	—	DCG5/5000GS	—
8011	P.	(CV62)	—
8012	P.	CV662	—
8013A	P.	CV716	50
8016	—	CV541	50 &
Appendix II			
8020	P.VVV.WVV.	CV2967, RY12-100	50
8021	P.	CV3587	—
8022	P.	CV944	—
8023	P.	CV933	—
8025	P.	CV663	—
8025A	P.LLI	(CV3915)	—
8026	P.	(CV92)	—
9001	P.LL.T.	CV1757	50
9002	P.LL.T.	CV664	50
9003	P.LL.T.	CV665	50
9004	P.	CV666	137
9005	P.	CV667	137
9006	P.T.	CV2967	50
9072	—	— ...	50
9901	—	5867 ...	—
9903	—	5894, B1135	—
10813	—	— ...	50
13077	—	CV2770	—
18014	—	— ...	50
18015	—	— ...	50
18016	—	— ...	50
18040	N.	— ...	50
18042	N.FFF.	— ...	50
18043	—	— ...	50
18045	N.	— ...	50
18046	N.FFF.	— ...	50
23042	CV2772	— ...	—
38116	—	1163 ...	—
38166	—	DCG4/1000G	—
38217	—	PL5557	—
68503	D.	CV2773	—
(modified)			
68504	D.	CV2774	—

Commercial		Equivalent (or nearest in brackets)	Page
Valve	Manufacturer		
68506	D.	CV2775, 1163 ...	—
68508	—	1164 ...	—
68510	D.	CV2776 ...	—
68530/ U600	D.	CV3756 ...	—
9510B	—	— ...	137
178148	—	1163, 68506, 38116	—
180238	I.	1164, 68508 ...	—
189048	I.	1163, CV2777 ...	—
189049	I.	1163, 68506 ...	—
217283	I.	1164, 180238, 68508	—
289414	—	1163, 189049, 38116	—
289416	—	1163, 289414, 189049, 38116	—
766766	—	1164, 217283, 180238, 68508	—
824476	JJJ.	— ...	137
859483	LLL.	CV2779 ...	—

Commercial		Equivalent (or nearest in brackets)	Page
Valve	Manufacturer		
A11A	KKK.	— ...	51
A11B	—	1W4-350, R2 ...	51
A11C	—	1W4-500, R3 ...	51
A11D	KKK.	1W4-350, R2 ...	51
A20B	KKK.	2D4A ...	51
A23A	KKK.	TDD4 ...	50 & 138
A26	—	— ...	51
A27D	KKK.	Pen4DD ...	51
A28	—	— ...	51
A30	—	— ...	51
A30B	KKK.	— ...	51
A30D	KKK.	354V ...	51
A32	KKK.	— ...	51
A36A	KKK.	— ...	51
A36B	—	TH4B ...	51
A36C	—	TH4B ...	51
A40	D.	CV2800 ...	51
A40/N3	M.	CV2801 ...	—
A40M	—	— ...	51
A41	D.	(CV1175) ...	—
A48	—	— ...	51
A50A	KKK.	SP4, 8A1 (5pin) ...	51
A50B	KKK.	SP4B ...	51
A50M	KKK.	9A1 (5pin) ...	51
A50N	KKK.	— ...	51
A50P	KKK.	VP4B ...	51
A70B	KKK.	Pen4VA, 7A2(7pin)	51
A70C	—	PenA4, 7A3(7pin)	51
A70D	KKK.	PenA4 ...	51
A70E	KKK.	PenB4 ...	51
A70P	—	— ...	51
A80A	KKK.	FC4, 15A2(7pin)	51
A104	—	— ...	51
A106	—	— ...	51
A109	—	— ...	52 & 138
A110	—	— ...	52
A125	—	— ...	52
A203	—	— ...	52
A203	—	— ...	52
A205	—	— ...	52
A206	—	— ...	52

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
A207	G.	ESU77	...
A209	—	— ...	... 52 & 138
A210	—	— ...	... 52 & 138
A211	—	— ...	... 52
A214	LLL.	— ...	... 138
A225	—	— ...	... 52 & 138
A235	—	— ...	... 52 & 138
A241	—	— ...	... 52
A242	—	— ...	... 52
A303	—	— ...	... 52
A306	—	— ...	... 52
A373	K.	(CV1184)	...
A404	—	— ...	... 52
A406	—	— ...	... 52
A408	FFF.	— ...	... 52
A409	N.	— ...	... 52
A410	—	— ...	... 52
A410N	—	— ...	... 52
A411	FFF.	— ...	... 52
A414	—	— ...	... 138
A414K	—	— ...	... 52
A415	—	— ...	... 52
A416	—	— ...	... 52
A402	—	— ...	... 52
A425	—	— ...	... 52
A430	—	— ...	... 52
A430N	354V.	— ...	... 52
A445	—	— ...	... 52
A440N	—	— ...	... 52
A442	—	— ...	... 52
A557	—	— ...	... 52
A500	—	— ...	... 52
A609	—	— ...	... 52
A615	—	— ...	... 52
A630	—	— ...	... 52
A635	—	— ...	... 52
A642	—	— ...	... 52
A800	K.	(CV412)	...
A802	—	— ...	... 52
A819	K.	(CV1698)	... 53
A863	—	— ...	... 53
A901	K.	(CV1722)	... 53
A915	K.	CV1462	...
A915met	K.	CV2803	...
A915Amet	K.	CV2804	...
A924	K.	CV2805	...
A1065M.	K.	(CV1343)	...
A1320	K.	CV51	...
A1685	—	— ...	... 53
A1685	—	— ...	... 53
A1714	K.	(CV408)	... 53
A1820	K.	(CV409)	... 53
A1834	K.	(CV2523)	... 53
A1860	—	— ...	... 138
A2030N	LLL.	— ...	... 138
A2087	K.	(CV2171)	... 53

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
A2030N	—	— ...	... 138
A2040N	—	— ...	... 138
A2118	FFF.	— ...	... 53
A2134	J.	CV2179	... 53
A2272	J.	CV2318	... 53
A2293	J.	CV4079, IICI	... 138
A2426	J.	CV4082	... 138
A2521	J.	CV2453	... 138
A2599	—	— ...	... 138
A2674	J.	— ...	... 138
A2688	J.	CV4081	... 138
A2738	—	— ...	... 138
A2744	—	— ...	... 138
A2913	—	— ...	... 138
A4501	—	QE06-50	...
A4090	—	— ...	... 53
A4110	FFF.	— ...	... 53
A4229	—	CV824	...
AABI	—	— ...	... 53
AA61	—	— ...	... 53
AA91E	—	— ...	... 138
ABI	N.FFF.	— ...	... 53
AB2	N.FFF.	— ...	... 53
ABCI	N.MMM.FFF.	— ...	... 53
ABC9I	—	— ...	... 53
ABLI	N.FFF.	— ...	... 53
AC/042	M.	— ...	... 53
ACO44	M.	(CV1168), P12/250	... 53
ACO54	M.	— ...	... 53
ACO64	M.	— ...	... 53
ACO84	M.	— ...	... 53
AC084N	M.	— ...	... 53
AC2	N.FF.	— ...	... 53
AC2DD	—	— ...	... 53
AC2/HL	D.	CV2806	... 53
AC2/ HLmet	D.	CV2807	... 53
AC2/Pen	D.	{(CV2808) PenA4, 7A3} (CV1181)	... 53
AC2PenDD	D.	(CV519)	... 53
AC3Pen	—	— ...	... 53
AC/4Pen	D.	(CV1326)Pen4B	... 53
AC/5Pen	D.	CV2809	... 53
AC/5 PenDD	D.	(CV1196)	... 53
AC/Pen	D.	(CV1189)	... 53
AC/7	RR.	(CV1683)	...
AC101	—	— ...	... 138
AC104	M.	(CV1161)	... 53
AC701	—	— ...	... 53
ACD	—	— ...	... 53
AC/DD	D.R.R.	(CV1170), (SD41)	... 53
AC/DDT	RR.	(CV2813), TDD4	... 53
AC/DX	—	— ...	... 53
AC/G	—	— ...	... 53
AC/HF	—	— ...	... 54

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
AC/HL	D.	CV2811	...	54	ACT19	K.	(CV379) ... —
AC/HLmet	D.	{ CV1037, 354V CV2812	...	54	ACT22	K.	(CV257) ... —
AC/HL/ DDD	D.	CV2813	...	54	ACT23	K.	(CV288) ... —
AC/HL/DD	—	TDD4 ...	...	54	ACT24	K.	(CV240) ... —
AC/HP	RR.	(CV1282), SP4	...	54	ACT25	K.	(CV436) ... —
ACHL4	—	— ...	...	54	ACT27	K.	(CV2163) ... —
ACHL4DD	—	— ...	...	54	ACT28	J.	CV2163 ... —
ACHM4	—	— ...	...	54	ACT29	J.	CV28, BR1138, 3J/12IE ... —
ACHVp	—	— ...	...	54	ACT30	J.	CV2383, 5762 ... —
ACHI	N.	— ...	...	54	AC/THI	D.	CV2830, TH4B ... 55
ACH4	—	— ...	...	54	AC/THIA	—	— ... 55
AC/L	RR.	(CV1732)	...	54	ACVG	—	— ... 55
ACL4	—	— ...	...	54	AC/VH	RR.	(CV3788) ... 55
ACL4	—	— ...	...	54	AC/VP	RR.	(CV2269) ... 55
ACLP	—	— ...	...	54	AC/VPB	RR.	(CV2823), VP4B... 55
AC/ME	—	— ...	Appendix I	AC/VPI	—D.	CV518, VP4A/5 ... 55	
ACME4	—	— ...	54	AC/VP2	D.	CV2832, VP4B ... 55	
ACP	D.	CV2815	...	54	AC/VP4	—	— ... 55
AC/P	D.	{ (CV1179) (CV1629)	...	54	AC/VS	D.	(CV1165) ... 55
ACPI	D.	— ...	54	AC/VS4	—	— ... 55	
AC/Pen	D.	(CV1174)Pen4VA, 7A2	...	54	AC/Y	RR.	(CV1174) ... 55
ACPN	—	— ...	54	AC/YC	—	— ... 55	
ACPNDH	—	— ...	54	AC/YY	RR.	(CV1326) ... 55	
AC/PP	—	— ...	54	AC/Z	RR.	(CV1181), PenA4 ... 55	
ACPT	K.	CV2818	...	54	AC/DDZ	RR.	— ... 55
AC/P4	D.	(CV207)	...	—	AD	—	— ... 138
ACPT8	J.	CV2818	...	—	ADI	N.	— ... 55
ACPX4	—	— ...	54	ADI/350	FFF.	— ... 55	
ACPX4A	—	— ...	54	ADIN	—	— ... 138	
AC/Q	RR.	(CV1326)	...	54	ADI01	—	— ... 138
ACQA	—	— ...	54	ADG	—	— ... 55	
ACIS	—	CV2819	...	—	ADHF	—	— ... 55
AC/S2	D.	(CV1677), SP4	...	54	ADHP	—	— ... 55
AC/S2Pen	D.	(CV1282), HP4101/7	...	54	ADL	—	— ... 55
AC/SG	D.	CV2822	...	54	ADPN	—	— ... 55
AC/SG	D.	(CV1190)	...	54	AD/P4	D.	(CV1198) ... —
AC/SGVM	P.	(CV1165), AS5124	...	54	ADVHP	—	— ... 55
AC/SH	RR.	(CV1677)	...	54	AE	—	— ... 55
AC/SL	—	SP4 ...	...	54	AF	—	— ... 55
AC/SPen	—	CV2824	...	—	AF2	N.FFF.	— ... 55
AC/SPI	D.	CV2820	...	54	AF3	M.	CV2833 ... 55
AC/SP3	D.	CV2923	...	54	AF7	FFF.N.MMM.	— ... 55
AC/SP3RH	D.	CV1430	...	138	AF8	—	— ... 55
AC/SP3RH	D.	CV545	...	—	AF350	C.	(CV1252) ... —
(sel.)					AFH202	G.	(CV12) ... —
AC/S1VM	D.	(CV1165)	...	54	AFX203	G.	(CV2868) ... —
AC/TP	D.	(CV1718)	...	55	AFX212	G.	CV1949 ... —
ACT6	K.	CV2825, CV1222	...	—	AFX234	G.	CV5023 ... —
ACT9	K.	(CV28)	...	—	AG	—	— ... 55
ACT10	K.	CV2827	...	—	AG495	—	— ... 55
ACT14	—	BR140	...	—	AG866A	—	DCG4/1000G ... —
ACT16	K.	CV1431	...	—	AG872A	—	DCGS/5000GB ... —
ACT17	K.	(CV225)	...	—	AG4100	—	— ... 55
					AG8008	—	DCGS/5000GS ... —
					AGR9950	—	5869 ... —

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
AGR9951	—	5870, DCG12/30	—
AH1	N.FFF.	— ...	55
AH100	—	— ...	55
AH200	G.	(CV2168) ...	—
AH201	G.	(CV32), ESU866	—
AH205	G.	(CV532), CV2673, 857B	—
AHZ11	G.	CV532, GU24 ...	—
AH213	G.	CV2732, 869B	—
AH217	—	DCG5/5000GB 827A	—
AH221	G.	(CV5) ...	—
AH238	G.	CV1629 ...	—
AH4105	—	— ...	55
AK2	N.FFF.	— ...	55
AL1	—	(CV159) ...	56
AL2	N.FFF.	— ...	56
AL2/375	FFF.	— ...	56
AL3	—	— ...	56
AL4	FFF.N.MMM.	— ...	56
AL4/375	—	— ...	56
AL5	N.FFF.	— ...	56
AL5/375	FFF.	— ...	56
AL22-10	—	2273P ...	—
AL60	M.	(CV9) ...	56
AL495	—	— ...	56
AL860	—	— ...	138
AMI	—	— ...	Appendix I
AMOE	—	— ...	56
ANI	M.	CV1128 ...	—
AN4092	FFF.	— ...	56
AP4	M.	(CV175) ...	—
AP495	—	— ...	56
APP4A	U.	7A2, (CV1683), Pen4VA	56
APP4AS	U.	— ...	56
APP4B	U.	7A3, (CV1181), PenA4	56
APP4BS	U.	— ...	56
APP4C	U.	(CV1684) ...	56
APP4G	U.	CV2836 ...	56
APP4G	U.	(CV2837) ...	56
APP4D	—	— ...	56
APP4E	U.	PenB4 ...	—
APP495	—	— ...	56
APP4100	—	— ...	56
APP4120	—	— ...	56
APV4	U.	(CV1039), IW4-350, R3	56
APV4100	—	1561 ...	—
AR63	G.	CV3710 ...	—
AR300	GG.	CV2839 ...	—
AR495	—	— ...	56
AR4100	—	— ...	56
AR4101	—	— ...	56
AS494	—	— ...	56

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
AS495	—	— ...	56
AS4100	—	— ...	56
AS4100	—	— ...	56
AS4120	U.	SP4 ...	56
AS4125	U.	— ...	56
ASG04A	—	Z300T, PL1267 ...	—
ASG5017	—	PL5557, TQ2 ...	—
ASG5023	—	PL3C23 ...	—
ASG5025	—	PL3C23 ...	—
ASG5121	—	PL2D21 ...	—
ASG6011	—	PL5684, C3JA ...	—
AT4	M.	(CV1171) ...	—
AV11	—	— ...	138
AW36-80	—	— ...	—
AW43-80	M.	17BTP4 ...	—
AW53-80	—	21CLP4 ...	—
AX	—	— ...	56
AX1	N.FFF.	— ...	56
AX4/125A	—	6155, QB3/300 ...	—
AX50	N.FFF.	— ...	56
AX105	—	PL105 ...	—
AX224	G.	CV1835, DCX4/1000, 3B28, GXU1, ESU103	—
AX230	—	CV2518, DCX4/5000, 4B32, GXU2	—
AX9900	—	5866, TB25/300, T350-I	—
AX9902	—	5868, TB4/1250 ...	—
AX9903	—	5894, QQE06-40 ...	—
AX9904	—	5923, TBW6/6000 ...	—
AX9904R	—	5924, TBL6/6000 ...	—
AX9906	—	5895, QQC04/15 ...	—
AX9905	—	6077, TBW12/100 ...	—
AX9906R	—	6078, TBL12/100 ...	—
AX9907	—	6075, QBW5/3500 ...	—
9907R	—	6076, QBL5/3500 ...	—
AX9908	—	6079, QB5/1750 ...	—
AX9909	—	6083, PE1/100 ...	—
AX9910	—	6252, QQE03/20 ...	—
AX9911	—	6268, 4C35 ...	—
9912	—	6269, 5V22 ...	—
AZ1	M.U.	CV2860 ...	56
AZ2	M.U.	CV2861 ...	57
AZ3	M.	— ...	57
AZ4	N.FFF.	— ...	57
AZ11	N.MMM.U.	— ...	57
AZ12	FFF.	— ...	57
AZ21	FFF.N.MMM.	— ...	57
AZ31	M.U.N.	CV2862, U143 ...	57
AZ32	M.U.	(CV2861) ...	57
AZ33	—	— ...	57
AZ41	M.PPP.	CV3892 ...	57
AZ50	N.FFF.M.	— ...	57
B1C/IC	R.	CV2734 ...	—
B1C/IE	R.	(CV433) ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
B2	—	— ...	57
B2A	—	CV2565, 2050 ...	—
B4B/IC	R.	(CV536) ...	—
B6	X.	(CV2140) ...	—
B6E	X.	(CV2141) ...	—
B7	—	— ...	57
B11	—	— ...	57
B12	X.	(CV494) ...	—
B12E	X.	(CV2142) ...	—
B21	K.	CV2864 ...	57
B22	—	— ...	57
B23	—	— ...	57
B24	X.	(CV2143) ...	57
B24E	X.	(CV2144) ...	—
B30	K.	CV2865 ...	57
B36	K.	(CV925), 12SN7 ...	57
B63	K.	(CV278) ...	57
B63	J.	— ...	57
B65	J.	(CV278), 6SN7GT ...	57
B105	—	— ...	57
B109	J.	UCC85 ...	138
B142	G.	CV1927 ...	—
B152	—	B309, ECC91, 12AT7 ...	57
B203	—	— ...	57
B204	—	— ...	57
B205	—	— ...	57
B217	N.	(CV1021) ...	57
B228	N.	(CV1673), PM2HL ...	57
B230	RR.	(CV1032) ...	57
B240	N.	(CV1032) ...	57
B242	—	— ...	57
B255	—	— ...	57
B262	N.	(CV1018) ...	57
B309	J.	(CV455), ECC81 B152 ...	57
B319	J.	PCC84 ...	57
B329	J.	CV491, ECC82, ...	57
B339	J.	CV492, ECC83, 12AX7 ...	58
B342	—	— ...	58
B349	—	— ...	138
B403	—	— ...	58
B405	N.	— ...	58
B406	N.	— ...	58
B409	N.	— ...	58
B415	—	— ...	58
B424	N.	— ...	58
B424S	—	— ...	58
B425	N.	— ...	58
B435N	—	— ...	138
B438	—	— ...	58
B438S	—	— ...	58
B422	N.	— ...	58
B442M	—	— ...	58
B4425	—	— ...	58
B443	N.	— ...	58

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
B443S	N.	— ...	58
B491	—	— ...	58
B543	—	— ...	58
B543S	—	— ...	58
B605	—	— ...	58
B609	—	— ...	58
B719	J.	ECC85 ...	58
B729	J.	— ...	139
B1109	G.	{ CV789 (CV2736) 5867, 9901 ...	—
B1135	—	— ...	—
B2006	N.	— ...	58
B3028	N.	— ...	58
B2041	—	— ...	58
B2042	—	— ...	58
B2043	—	— ...	58
B2044S	—	— ...	58
B2045	N.	— ...	59
B2046	N.	— ...	59
B2047	N.	— ...	58
B2048	N.	X2818 ...	—
B2049	N.	X2918 ...	—
B2052T	N.	— ...	58
B2055	—	— ...	58
B2099	N.	— ...	58
BA2	—	— ...	58
BA9-20	M.	CV2393 ...	—
BB1	—	— ...	59
BBC12	—	— ...	59
BB220A	—	— ...	59
BB240	—	— ...	59
BCHI	—	— ...	59
BD78	B.	(CV2125) ...	—
BFI	—	— ...	59
BF61	—	— ...	59
BF62	—	— ...	59
BF451	—	— ...	59
BL2	—	— ...	59
BHP61	—	— ...	59
BLC/IC	R.	(CV433) ...	—
BLP61	—	— ...	59
BM968	—	— ...	59
BK24	P.	PL5552A ...	—
BK34	—	PL5553B ...	—
BK42	—	PL5551A ...	—
BK44	B.	CV1742 ...	—
BK46	—	PL5555 ...	—
BL63	J.	(CV1102) ...	59
BOLO14	R.	CV984 ...	—
MW	—	— ...	—
BPMO4	—	— ...	59
BRI	—	CV692 ...	—
BRI29	G.	CV2687 ...	—
BRI52	G.	CV28, ACT9 ...	—
BRI53	G.	(CV2159) ...	—
BRI61	G.	(CV2322) ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
BR175	G.	CV904, ESA892 ...	—	C12B	R.	(CV2315) ...	—
BR179	G.	(CV2322/2323) ...	—	C12A	A.	CRM121 ...	—
BR191	G.	CV383 ...	—	C12FM	—	MW31-14 ...	—
BR191B	—	5762 ...	—	C12R	R.	(CV429) ...	—
BR1130	—	5736 ...	—	C14HM	R.	CV3535 ...	—
BS4	B.	(CV189) ...	—	C16GS/2G	R.	CV2745 ...	—
BS4A	B.	CV1859 ...	—	C17-1A	—	MW43-69 ...	—
BS5	B.	(CV233) ...	—	C17-2A	—	MW43-69 ...	—
BS48	B.	CV460 ...	—	C17-4A	—	MW43-80 ...	—
BS52	B.	CV1841 ...	—	C20C	KKK.	10DI ...	59
BS60	D.	(CV527) ...	—	C21-1A	—	MW53-80 ...	—
BS62	—	CV1858 ...	—	C21KM	A.	MW53-80 ...	—
BS64	B.	CV1743 ...	—	C23B	KKK.	— ...	59
BS82	B.	(CV463) ...	—	C25	—	— ...	59
BS84	B.	(CV462) ...	—	C30	—	— ...	59
BS92	B.	(CV461) ...	—	C30B	KKK.	HL13C, 4DI ...	59
BS100	D.	(CV1219), DA100 ...	—	C36A	KKK.	TH21C ...	59
BT5	B.	(CV1147) ...	—	C36B	—	— ...	59
BT9	B.	CV1145 ...	—	C50B	KKK.	SPI3C, 8D2 ...	59
BT9A	B.	(CV1146) ...	—	C50N	KKK.	4D2 ...	60
BT9B	B.	(CV13) ...	—	C70D	KKK.	7D6 ...	60
BT19	B.	(CV1144) ...	—	C80B	KKK.	FC13C, 15DI ...	60
BT35	B.	(CV1147) ...	—	C109	—	— ...	60
BT45	B.	(CV22) ...	—	C125	—	— ...	60
BT69	—	6786, DCG7/100B ...	—	C135	—	— ...	60
BT75	B.	(CV489) ...	—	C142	—	— ...	60
BT79	B.	(CV372) ...	—	C143	G.	(CV26), 813 ...	—
BT83	B.	(CV1120) ...	—	C144	G.	(CV2666) ...	60
BT91	—	PL5544 ...	—	C178A	—	5894 ...	—
BTR32	H.	(CV458) ...	—	C180	G.	(CV788) ...	60
BTR34	H.	(CV459) ...	—	C200	—	CV2988 ...	—
BUI00/6	D.	CV2867 ...	—	C203A	—	CV2986 ...	—
BW	G.	CV1600 ...	—	C243	—	— ...	60
BW3	—	— ...	59	C243N	N.	(CV1118) ...	60
BW129	G.	ESW5000 ...	—	C405	—	— ...	60
BW140	G.	(CV2871), CAT6 ...	—	C408	N.	— ...	60
BW153	G.	(CV2872), CAT9 ...	—	C443	—	— ...	60
BW175	G.	ESW892 ...	—	C443N	—	— ...	60
BW602	—	— ...	59	C443N/S	—	— ...	60
BW1304	—	— ...	59	C453	—	— ...	60
BX2	—	— ...	59	C508	—	— ...	60
BX604	—	— ...	59	C509A	—	— ...	60
C1A	—	(CV2868) ...	—	C543	—	— ...	139
C1B	—	CV1765 ...	—	C603	—	— ...	60
C1C	N.	CV1400 ...	—	C606	—	— ...	60
C1K	—	CV2790 ...	—	C643	—	— ...	60
C3A	—	— ...	139	C866	—	DCG4/1000G ...	—
C3G	—	— ...	59	C866A	—	DCG4/1000G ...	—
C3J	—	PL5632 ...	—	C872	—	DCG5/5000G ...	—
C3JA	—	PL5684 ...	—	C1108	G.	(CV2130) ...	—
C3M	—	— ...	59	C1111	G.	CV427 ...	—
C6A	—	CV714 ...	59	C1112	G.	{(CV2964) (CV2131) ...	—
C9	—	— ...	59	C1123	G.	CV3543, 4D32 ...	—
C9A	A.	CRM92 ...	—	C1133	—	4PR60A ...	—
C10B	KKK.	URIC, V20, ID5 ...	39	C7501	—	CV2869 ...	—
C10SS/2G	R.	(CV2794) ...	—				

Commercial		Equivalent	Page	Commercial		Equivalent	Page
Valve	Manufacturer	(or nearest in brackets)		Valve	Manufacturer	(or nearest in brackets)	
CAA322	—	CVI904	...	CF1	—	SPI3 ...	60
CAR1	K.	(CVI601)	...	CF2	—	VPI3A	60
CAR4	K.	(CVI602)	...	CF3	—	— ...	60
CAT1	K.	(CVI600)	...	CF7	—	SPI3 ...	60
CAT2	K.	(CVI606)	...	CF50	—	— ...	60
CAT6	K.	(CV2871)	...	CF51	—	— ...	60
CAT9	K.	(CV2872)	...	CF61	—	— ...	61
CAT17	K.	CV533	...	CF141	—	— ...	61
CAT20C	K.	(CV421)	...	CG1-C	—	(CV425)	—
CBC1	FFF.N.MMM.	— ...	60	CG1-E	—	(CV425)	—
CBL1	M.N.U.FFF.	— ...	60	CG4E	—	2X105G	—
CBL6	FFF.	— ...	60	CG14	—	(CV496)	—
CB215	U.	— ...	60	CHI	—	— ...	61
CB215S	U.	— ...	60	CK1	—	FCI3 ...	61
CB220	U.	— ...	60	CK108	—	— ...	139
CBL31	M.U.N.	CVI463	60	CK502AX	—	(CV385)	—
CCI	N.	— ...	60	CK505AX	—	(CV443)	—
CC2	FFF.	HL13 ...	60	CK506AX	—	(CV387)	—
CC3D	RR.	CV2870	—	CK507AX	—	— ...	139
CC3L	RR.	(CV2266)	—	CK509AX	—	— ...	139
CC81E	SSS.	6201 ...	139	CK515BX	—	— ...	139
CC82E	SSS.	6067 ...	139	CK518AX	—	— ...	139
CCH1	—	— ...	60	CK520AX	—	— ...	139
CCH2	—	— ...	60	CK521AX	—	— ...	139
CCH35	—	— ...	60	CK523AX	—	— ...	139
CE1	VVV.	918 ...	—	CK524AX	—	— ...	139
CE1C	—	(CV2692), 918	—	CK525AX	—	— ...	139
CE1D	—	(CV2680)	—	CK526AX	—	— ...	139
CE1E	—	(CV2680)	—	CK527AX	—	— ...	139
CE2	VVV.	CVI764, IP30	—	CK528AX	—	— ...	139
CE3	VVV.	IP31 ...	—	CK529AX	—	— ...	139
CE4	VVV.	IP36 ...	—	CK531DX	—	— ...	139
CE5	VVV.	IP35 ...	—	CK532DX	—	— ...	139
CE1 IV	VVV.	917 ...	—	CK533AX	—	— ...	139
CE20	—	CVI474	—	CK535AX	—	— ...	139
CE21	VVV.	920 ...	—	CK536AX	—	— ...	139
CE23	VVV.	923 ...	—	CK537AX	—	— ...	139
CE25	VVV.	(CV405), IP32, 927	—	CK539DX	—	— ...	139
CE26	VVV.	IP33 ...	—	CK541DX	—	— ...	139
CE29	VVV.	IP39, 929	—	CK542DX	—	— ...	139
CE31V	VVV.	919 ...	—	CK542DXS	—	— ...	139
CE34	VVV.	934 ...	—	CK544DX	—	— ...	139
CE59	VVV.	5581 ...	—	CK545DX	—	— ...	139
CE72	—	CV709	—	CK546	—	— ...	61
CE91	VVV.	IP37 ...	—	CK546DX	—	DL651	—
CE225	—	1163 ...	—	CK547DX	—	— ...	139
CE226	—	1163 ...	—	CK549DX	—	DF651 ...	—
CE230	—	CV812	60 &	CK707	—	CV2848	—
			Appendix II	CK1002	—	— ...	61
CE235	—	1164 ...	—	CK1005	—	CV2874	61
CE305	—	3V/340B	—	CK1006	—	— ...	61
CE309	—	PL5557, TQ2	—	CK1007	—	— ...	61
CE311	—	PL3C23, TQ1/2 ...	—	CK1012	—	— ...	61
CE866	—	DCG4/1000G	—	CK1024	—	— ...	61
CE872A	—	DCG5/5000GB	—	CK1028	—	— ...	61
CE927	—	3546PW/02	—	CK1091	—	— ...	61

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
CK5608	—	— ...	139	CK6005	—	— ...	140
CK5608A	—	— ...	139	CK6021	—	— ...	140
CK5639	—	— ...	139	CK6029	—	— ...	140
CK5639A	—	— ...	139	CK6050	—	— ...	141
CK5654	—	— ...	139	CK6051	—	— ...	141
CK5656	—	— ...	139	CK6088	—	— ...	141
CK5670	—	— ...	139	CK6092	—	— ...	141
CK5676	—	— ...	139	CK6100	—	— ...	141
CK5677	—	— ...	139	CK6101	—	— ...	141
CK5678	—	— ...	139	CK6110	—	— ...	141
CK5672	—	5672 ...	—	CK6111	—	— ...	141
CK5687	—	— ...	139	CK6112	—	— ...	141
CK5692	—	— ...	139	CK6135	—	— ...	141
CK5693	—	— ...	140	CK6147	—	— ...	141
CK5694	—	— ...	140	CK6152	—	— ...	141
CK5697	—	— ...	140	CK6186	—	— ...	141
CK5702	—	— ...	140	CK6201	—	— ...	141
CK5702WA	—	— ...	140	CK6245	—	— ...	141
CK5702WB	—	— ...	140	CK6247	—	— ...	141
CK5703	—	— ...	140	CK6247WA	—	— ...	141
CK5703WA	—	— ...	140	CK6286	—	— ...	141
CK5703WB	—	— ...	140	CK6397	—	— ...	141
CK5704	—	CV2847 ...	140	CK6418	—	— ...	141
CK5704WA	—	— ...	140	CK6419	—	— ...	141
CK5725	—	— ...	140	CK6485	—	— ...	141
CK5726	—	5726 ...	140	CK6519	—	— ...	141
CK5744	—	— ...	140	CK6526	—	— ...	141
CK5744WA	—	— ...	140	CK6533	—	— ...	141
CK5744WB	—	— ...	140	CK6533WA	—	— ...	141
CK5749	—	— ...	140	CK6540	—	— ...	141
CK5751	—	— ...	140	CK6611	—	— ...	141
CK5755	—	— ...	140	CK6612	—	— ...	141
CK5784	—	— ...	140	CK6872	—	— ...	141
CK5784WA	—	— ...	140	CL1	—	— ...	61
CK5784WB	—	— ...	140	CL2	—	— ...	61
CK5785	—	— ...	140	CL3	—	— ...	61
CK5814	—	— ...	61	CL4	—	GV2875 ...	61
CK5829	—	— ...	140	CL6	N.U.M.	— ...	61
CK5829WA	—	— ...	140	CL33	M.U.	CV1401 ...	61
CK5851	—	— ...	140	CMG8	J.	(CV1432) ...	—
CK5854	—	— ...	140	CMG22	J.	(CV1473) ...	—
CK5873	—	— ...	140	CMG25	J.	(CV242) ...	—
CK5875	—	— ...	140	CMG25	J.	(CV250) ...	—
CK5879	—	— ...	140	(R.S.)			
CK5881	—	— ...	140	CMG25	J.	(CV1472) ...	—
CK5886	—	DF703 ...	—	short			
CK5910	—	— ...	140	CTR139	—	872R ...	—
CK5965	—	— ...	140	CO241	—	— ...	141
CK5967	—	— ...	140	CO243	—	— ...	141
CK5968	—	— ...	140	CO244	—	— ...	141
CK5969	—	— ...	140	CO257	—	— ...	141
CK5970	—	— ...	140	CO258	—	— ...	141
CK5971	—	— ...	140	CRI100	—	6076, QBL5/3500 ...	—
CK5972	—	— ...	140	CRI101	—	6181 ...	—
CK5975	—	— ...	140	CRM91	—	C9A ...	—
CK5995	—	— ...	140	CRM92	—	C9A ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
CRM12I	—	CI2A ...	—
CRT4/I	E.	CV2880 ...	—
CRT5/I	E.	(CV487) ...	—
CR176	F.	(CV2324) ...	—
CS2-A	B.	(CV103) ...	—
CS2-C	B.	CV1907 ...	—
CS3-A	B.	(CV253) ...	—
CS3-B	B.	CV1844 ...	—
CS4B	B.	(CV2258) ...	—
CTI-500	—	3V/340B ...	—
CTI/2500	—	PL5559/57 ...	—
CWS24A	J.	CV1968 ...	—
CX25	—	CV1766 ...	—
CX1113	G.	CV2851 ...	—
CXTI	M.	CV2389 ...	—
CXT2	M.	CV2400 ...	—
CYI	M.N.U.FFF.	G2080 ...	—
CY1c	M.	UR1c, V20 ...	61
CY2I	—	— ...	61
CY3I	M.N.U.	CV1402 ...	—
CY32	U.M.	— ...	61
CZ30	—	— ...	61
CZ50ID	—	— ...	61
CZ504D	—	— ...	61
D $\frac{1}{2}$	—	— ...	61
D1	D.	(CV1078) ...	61
D2	—	CV2778 ...	61
D2M9	—	— ...	61
D3A	—	— ...	141
D4	H.	(CV1037), 354V ...	61
D13U	—	— ...	61
D41	J.	(CV1187), 2D4A ...	62
D42	J.	CV557 ...	62
D43	J.	— ...	62
D16	D.	(CV1092) ...	62
D63	D.	CV554, 6H6G ...	62
D77	D.	(CV140), EB91, 6AL5 ...	62
D105	—	— ...	62
D110	—	— ...	62
D121	—	— ...	62
D143	—	12 ...	141
D152	—	EB91, 6AL5 ...	62
D210	RR.	(CV1021) ...	62
D243	—	— ...	62
D400	U.	(CV1170), SD4A ...	62
D401	—	— ...	141
D404	N.	— ...	62
D410	—	— ...	62
D418	U.	(CV1686) ...	62
D604	—	— ...	62
DA	H.	(CV1109), 4DI ...	62
DA1	—	— ...	62
DA2	—	— ...	62
DA3	—	— ...	62
DA30	J.	CV563 ...	62
DA41	J.	(CV1076) ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
DA42	J.	ID13 ...	62
DA60	J.	CV527 ...	—
DA90	M.	(CV753), 1A3 ...	62
DA100	J.	(CV1219), ESI 102 ...	—
DA101	—	— ...	62
DA406	—	— ...	62
DACI	M.	CV2887 ...	62
DAC21	N.FFF.	— ...	62
DAC22	—	— ...	62
DAC25	—	— ...	62
DAC31	—	— ...	62
DAC32	M.	{ (CV8120), IH5GT (CV8118) }	62
DAF11	—	— ...	62
DAF40	N.FFF.	— ...	62
DAF41	N.FF.F	— ...	62
DAF70	M.	(CV2104) ...	62
DAF91	M.	(CV784), IFD9, ISS ...	63
DAF92	M.	— ...	63
DAF96	A.M.H.MMM.	1AH5, IFD1 ...	63
DAF191	MMM.	— ...	63
DAF961	—	— ...	141
DAG1	M.	CV2 ...	—
DAS1	—	— ...	63
DB	—	— ...	63
DB7-36	M.	3WP11 ...	—
DB13/14	—	5ADP11 ...	—
DB13/134	—	5ADP11 ...	—
DB16-22	—	7AMP11 ...	—
DBC21	N.	— ...	63
DBC25	—	— ...	63
DBC31	—	— ...	63
DC2/HLDD	—	— ...	63
DC2/Pen	—	— ...	63
DC2P	D.	(CV1735) ...	63
DC2SG	—	— ...	63
DC2SGVM	—	— ...	63
DC3HL	—	— ...	63
DC11	—	— ...	63
DC25	—	— ...	63
DC51	M.	(CV1) ...	—
DC70	M.N.	(CV2275), 6375 ...	63
DC80	FFF.	— ...	63
DC90	MMM.N.FFF.	— ...	63
DC93	—	— ...	63
DC96	FFF.	— ...	63
DC193	—	— ...	63
DCC90	M.	CV808, 3A5 ...	63
DCF60	SSS.	1V6 ...	—
DCG4/ 1000ED	—	DQ2A. ...	—
DCG4/ 1000G	—	DQ2 ...	—
DCG5-	—	— ...	—
5000GB	—	872A, DQ4 ...	—
DCG9/20	—	DQ6 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
DCH1	—	— ...	63
DCH11	—	— ...	63
DCH21	—	— ...	63
DCH22	—	— ...	63
DCH25	—	— ...	63
DCH31	—	— ...	63
DCH ...	—	— ...	63
DCH25	—	— ...	63
DCH31	—	— ...	63
DC/HL	—	— ...	63
DC/P	—	— ...	63
DC/SG	—	— ...	63
DCX4-1000	—	3B28, DX2 ...	—
DCX4-5000	—	4B32 ...	—
DDL	C.	(CV1691) ...	—
DD4	C.U.	(CV1170), 2D4A ...	63
DD4D	U.	— ...	63
DD6	C.H.	(CV140), EB91, 6AL5 ...	63
DD6DS	—	— ...	63
DD6G	U.	(CV140) ...	63
DD13	U.	— ...	64
DD41	D.	CV1403 ...	64
DD101	D.	— ...	64
DD207	D.	— ...	64
DD465	U.	— ...	64
DD260	D.	CV2889 ...	64
DD818	U.	— ...	64
DD960	MMM.	— ...	64
DDA1	—	2D4A ...	64
DDDI1	—	— ...	64
DDD25	—	— ...	64
DDL4	—	CV1691, 2D4A ...	64
DDL13	C.	(CV1695) ...	—
DDP4B	—	— ...	64
DDPM	—	— ...	64
DD/Pen	—	— ...	64
DDPP4B	U.	— ...	64
DDPP4BM	U.	(CV519) ...	—
DDPP4BS	—	— ...	64
DDPP4M	U.	Pen4DD ...	64
DDPP6BS	—	EBLI ...	64
DDPP6S	—	EBLI ...	—
DDPP39	U.	— ...	64
DDPP39M	U.	— ...	64
DDPP39S	U.	CBLI ...	64
DDR2	M.	(CV173) ...	64
DDR3	—	— ...	64
DDR7	—	— ...	64
DDT	C.	CV2813 ...	64
DDTmet	U.	CV2890 ...	64
DDT2	U.	TDD2A ...	64
DDT2B	U.	— ...	64
DDT2BS	U.	— ...	64
DDT4(S)	U.	— ...	64
DDT4	U.	(CV2813), TDD4 ...	64
DDT6	—	— ...	64

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
DDT6S	—	— ...	64
DDT13	U.	— ...	64
DDT13S	U.	— ...	64
DDT16	—	— ...	64
DDT213	—	— ...	64
DDT215	—	— ...	64
DDT220	—	TDD2A ...	64
DDX52	M.	(CV2232) ...	—
DEI	—	— ...	64
DE5	J.	CV2891 ...	64
DET5B	J.	CV2892 ...	—
DEQ	J.	(CV1156) ...	—
DER	J.	CV(1642) ...	—
DETISW	J.	CV2895 ...	—
DET3	J.	(CV1034) ...	—
DET5	J.	(CV1223) ...	—
DET6	J.	(CV1620) ...	—
DET9	J.	CV2899 ...	—
DET10	J.	CV2900 ...	—
DET12	J.	(CV1288), 4304CB ...	—
DET16	J.	(CV1363) ...	—
DET18	J.	(CV419) ...	—
DET19	J.	(CV18) ...	64
DET20	J.	(CV6) ...	64
DET22	J.	(CV273) ...	—
DET23	J.	(CV354) ...	—
DET24	J.	(CV397) ...	—
DET25	J.	(CV1025) ...	—
DET25	J.	(CV1025) ...	—
DET29	J.	CV2397 ...	—
DFI	—	CV2907 ...	65
DF11	—	— ...	65
DF16	—	— ...	141
DF21	N.FFF.	— ...	65
DF22	N.FFF.	— ...	65
DF23	—	— ...	65
DF25	—	— ...	65
DF26	—	— ...	65
DF31	—	— ...	65
DF32	—	— ...	65
DF33	M.	(CV1823), IN5GT ...	65
DF60	M.	CV2254, 5678 ...	65
DF61	M.	CV2371 ...	65
DF62	M.	CV2237, IAD4 ...	65
DF63	M.	CV2433 ...	141
DF64	M.	CV2260 ...	65
DF65	N.FFF.	— ...	65
DF66	M.	(CV2107) ...	65
DF67	—	6008 ...	65
DF70	M.	(433) ...	65
DF72	M.	(CV2101) ...	65
DF73	M.	(CV2103) ...	65
DF91	M.H.	(CV785), IT4, IF3 ...	65
DF92	M.H.	(CV1758), IL4, IF2 ...	65
DF96	A.MMM.N.H.	IAJ4, IFI ...	65
	FFF.M.		

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
DF97	H.FFF.M.	IAN5 ...	65	DK32	M.	(CV1802), 1A7gt	66
DF167	MMM.	— ...	65	DK40	N.FFF.M.	— ...	66
DF191	MMM.	— ...	65	DK91	M.H.	(CV782), 1R5, 1C1	66
DF668	—	— ...	141	DK92	M.H.N.FFF.	IAC6, 1C2 ...	66
DF669	—	— ...	141	DK96	A.M.H.MMM.	IAB6, 1C3 ...	66
DF703	—	— ...	—		N.	— ...	—
DF904	—	IU4 ...	65	DK192	MMM.	— ...	66
DF906	—	— ...	65	DL	J.	(CV1661) ...	66
DF961	—	— ...	141	DL1	—	— ...	66
DFF50	N.	— ...	65	DL2	M.	CV2911 ...	66
DFF51	N.	— ...	65	DL11	—	— ...	66
D101FF	—	— ...	65	DL21	N.MMM.	— ...	66
DG4-1	M.	CV5131 ...	—	DL22	—	— ...	66
DG7-5	M.	(CV2175), 3ALPI	—	DL25	—	— ...	66
DG7-32	M.	CV2431, 3AMPI, 5UPI	—	DL29	—	3D6 ...	142
DG7-36	M.	CV3946, 3W01 ...	—	DL31	—	— ...	66
DG13-2	M.	(CV2191) ...	—	DL33	M.	(CV819), 3Q5GT	66
DG13-34	M.	CV5035, 5ADPI	—	DL35	M.	(CV1805), 1CT5G	66
DG16-22	M.	CV2352, 7AHPI	—	DL36	—	1Q5GT ...	66
DG210	U.	— ...	65	DL41	N.FFF.	— ...	66
DG736	—	8AI ...	—	DL63	J.	CV2912, 6R7 ...	66
DGP	C.	(CV1141) ...	—	DL64	M.	(CV2331) ...	66
DH	C.	(CV1665) ...	65	DL65	N.FFF.	— ...	66
DH3-91	M.	CV2302, 1CPI ...	—	DL66	M.	(CV2106), CV2288	66
DH7-91	M.	3AFPI ...	—	DL67	N.FF.	— ...	66
DH10-94	M.	4EPI ...	—	DL68	M.	CV2259 ...	66
DH13-97	M.	5BKPI ...	—	DL69	M.	CV2105 ...	66
DH30	J.	(CV1695) ...	65	DL69	M.	CV2361 ...	66
DH42	J.	TDD4 ...	65	DL70	M.	CV2105, 6373 ...	66
DH63	J.	(CV587), 6Q7G ...	65	DL71	M.	(CV385) ...	66
DH63M	J.	(CV587) ...	65	DL72	M.	(CV387) ...	66
DH73M	J.	CV2909 ...	65	DL73	M.	(CV2299) ...	66
DH74	J.	— ...	65	DL74	J.	— ...	66
DH 6	J.	— ...	65	DL74M	—	12Q7GT ...	—
DH76	J.	12Q7GT ...	65	DL75	M.	(CV2102) ...	66
DH77	J.	(CV452), EBC90, 6AT6	65	DL82	M.	7B6 ...	66
		(CV882), 7B6 ...	65	DL91	M.	CV783, 1S4 ...	66
DH81	J.	— ...	—			CV820), 3S4, 1PI0	66
DH101	J.	— ...	—	DL92	M.	CV484 ...	66
DH107	J.	— ...	—			CV2370 ...	66
DH109	—	UABC80 ...	141			CV807), 3A4	66
DH118	J.	DH142 ...	142	DL93	M.	CV2390 ...	66
DH119	—	— ...	142			CV2300 ...	66
DH142	—	UBC41 ...	65	DL94	M.	CV2983, 3V4, 1PI1	66
DH147	—	EBC33 ...	66	DL95	M.	(CV818), N18, 3Q4	66
DH149	—	7C6 ...	66	DL96	M.N.H.A.	3C4, 1PI ...	67
DH150	—	EBC41 ...	66		MMM.FFF.	— ...	—
DH718	J.	— ...	142	DL98	M.	CV2240, 3B4	67
DH719	J.	EABC80 ...	66	DLZ167	MMM.	— ...	67
DH791	M.	3AFPI ...	—	DL145	—	— ...	67
DH817	J.	DH150 ...	—	DL161	—	— ...	142
DHD	—	— ...	66	DL192	MMM.	— ...	67
DHL	—	— ...	66	DL193	MMM.	— ...	67
DK1	M.	CV2910 ...	66	DL620	M.	CV2238 ...	67
DK21	N.FFF.	— ...	66	DL650	—	— ...	142
DK31	—	— ...	142				

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
DL651	—	— ...	67
DL907	—	— ...	67
DL962	—	— ...	142
DL963	—	— ...	142
DLL21	N.FFF.	— ...	67
DLL25	—	— ...	67
DLL31	—	— ...	67
DLL101	—	— ...	67
DLL102	—	— ...	67
DLP51	—	— ...	67
DLS	D.	(CV190)	—
DLS10	D.	{ CV190 (CV979)	—
DLS19	D.	CV342	—
DM6	X.	(CV2146)	—
DM21	M.	— ...	Appendix I
DM70	M.N.	CV2980, IM3	Appendix I
DM71	M.	IMI ...	Appendix I
DMI60	M.	6977 ...	Appendix I
DN41	J.	— ...	67
DNI43	—	EBL21 ...	67
DO24	—	PX25 ...	62
DO25	—	— ...	62
DO26	M.	(CV1178)	67
DO30	M.	(CV1178), DA30	67
DO42	—	Pen 4DD	142
DO60	M.	(CV1206)	—
DP	—	— ...	67
DP5	—	— ...	67
DP7	—	— ...	67
DP7-5	M.	CV5171	—
DP7-91	M.	3AFPI	—
DPI3-34	M.	3ADP7	—
DPI6-22	M.	3AHP7	—
DP61	H.	EF95, 6AK5	67
DP495/6	—	Pen4DD	67
DP4480	—	— ...	67
DP/Pen	—	— ...	67
DPT	J.	— ...	67
DQZ	RRR.	DCG4/1000G	—
DQ2A	RRR.	DCG4/1000ED	—
DQ4	RRR.	DCG5/5000GB, 872A	—
DQ4A	RRR.	DCG5/5000EG	—
DQ6	RRR.	6508, DCG9/20, 869B	—
DQ7	RRR.	AN205	—
DQP	C.	(CV1121)	—
DS	H.	(CV2979)	67
DS103	NNN.	(CV94)	—
DSB	J.	— ...	67
DSPen	—	— ...	67
DT7	—	— ...	67
DT41	—	— ...	142
DT70	—	CV798	—
DT215	LLL.	— ...	142
DT436	LLL.	TDD4 ...	67 & 142

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
DT1366	—	— ...	67
DTV1	—	— ...	142
DUI	—	— ...	67
DU2	—	— ...	67
DU3	—	— ...	67
DU4	—	— ...	67
DU5	—	— ...	67
DUI0	—	— ...	67
DV32	—	— ...	—
DV32	R.	(CV88)	—
DV34	R.	(CV127)	—
DV40B	—	(CV228), V246A/1K	—
DV55	R.	(CV230)	—
DV56	R.	(CV234), V230A/1K	—
DVSG	—	— ...	67
DVSPen	—	— ...	67
DW1	—	— ...	68
DW2	M.	(CV1443), RV120/350	68
DW2X	—	— ...	68
DW3	M.	DW4-350, R2	68
DW4	M.	DW4-500, R3	68
DW4/350	M.	CV1796, RV120/350 3R,	68
DW4/500	M.	(CV1064, RV120/500, R3	68
DW4	—	— ...	68
DW5	—	— ...	68
DW7X	—	— ...	68
DW8	—	— ...	68
DW15	—	— ...	142
DW30	—	— ...	68
DW802	—	— ...	68
DW1508	—	— ...	68
DW4011	—	— ...	68
DW4023	—	— ...	68
DX2	—	— ...	68
DX144	—	EC56	—
DX145	—	EC57	—
DY30	—	IB3GT	68
DY70	M.	(CV2241), 5642	142
DY80	A2	IX2A-B	68
DY86	MMM.N.FFF.	I52	68
DY87	N.	— ...	68
DY604	—	— ...	68
DZ2	—	— ...	68
E	—	— ...	68
EIT	M.N.	CV5106, 6370	—
E2D111	—	AL4	—
E4	—	— ...	68
E4F	—	— ...	68
E4H	—	— ...	68
E4K	—	— ...	68
E4L	—	— ...	68
E20V	—	— ...	68
E80CC	N.FFF.	6085	68
E80CF	N.	— ...	142
E80F	N.M.	CV2729, 6084	68

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
E80L	FFF.N.	6227 ...	68
E80T	—	6218 ...	—
E81CC	—	— ...	142
E81L	N.FFF.	6686 ...	68
E82CC	—	— ...	142
E83CC	—	— ...	142
E83F	N.FFF.M.	6689 ...	68
E86C	—	— ...	142
E87L	—	— ...	68
E88CC	N.M.	6922 ...	68
E90CC	N.FFF.M.	5920 ...	68
E90F	M.N.	68H6 ...	142
E91AA	—	5726 ...	142
E91H	N.	6687 ...	68
E91N.	—	PL5727 ...	—
E92CC	N.FFF.	— ...	68
E95F	—	5654 ...	—
E99F	—	6662 ...	—
E125A	—	6155, QB3/300 ...	—
E130	—	— ...	Appendix I
E132	J.	(CV1643) ...	—
E133	J.	(CV1645) ...	—
E180CC	N.	7062 ...	68
E180F	N.M.FFF.	CV3998, 5A/170K, 6688	68
E181CC	N.	7118 ...	68
E182CC	N.	7119 ...	142
E184	—	— ...	142
E188CC	—	— ...	142
E220B	LLL.	— ...	142
E235	—	PM202 ...	68
E235L	—	— ...	142
E236L	—	— ...	142
E250A	—	6156, QB35/750	—
E280F	—	— ...	142
E283CC	—	— ...	142
E405	—	— ...	69
E406	—	— ...	69
E406N	N.	— ...	69
E408	—	— ...	69
E408N	N.	— ...	69
E409	N.	— ...	69
E409N	—	— ...	69
E410	—	— ...	69
E414	—	— ...	69
E415	—	— ...	69
E420	—	— ...	69
E422	—	— ...	69
E424	—	— ...	69
E424R	—	— ...	69
E424N	N.	— ...	69
E425	—	— ...	69
E428	—	— ...	69
E430	—	— ...	69
E430N	—	— ...	69
E435	—	— ...	69
E438	N.	— ...	69

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
E438M	—	— ...	142
E44I	—	— ...	142
E441N	—	— ...	69
E442	N.	— ...	69
E442S	N.	— ...	69
E443H	N.	— ...	69
E443N	N.	— ...	69
E444	N.	— ...	69
E444N	N.	— ...	69
E44S	N.	— ...	69
E445	N.	— ...	69
E445M	—	— ...	142
E446	N.	(CV1282), SP4 ...	69
E447	N.	— ...	69
E448	N.	— ...	69
E449	N.	— ...	69
E45I	N.	— ...	69
E452T	N.	— ...	69
E453	N.	— ...	69
E454	—	— ...	69
E455	N.	— ...	69
E462	—	— ...	69
E463	N.	— ...	69
E499	N.	— ...	69
E501D	—	— ...	70
E501R	—	— ...	70
E504D	—	— ...	70
E504P	—	— ...	70
E543	—	— ...	70
E646	—	— ...	70
E703	—	— ...	70
E707	N.	LK7110 ...	—
E810F	—	— ...	142
E85I	—	— ...	70
E900	—	TB4/100 ...	—
E960	J.	(CV1058) ...	—
E960T	J.	(CV1098) ...	—
E1024	J.	(CV1184) ...	—
E1046	J.	(CV1090) ...	—
E1097	J.	(CV1111) ...	—
E1132	J.	(CV1111) ...	—
E1137	—	— ...	70
E1143	J.	(CV1577) ...	—
E1148	J.	(CV6) ...	70
E1155	J.	(CV44) ...	—
E1161	J.	(CV1253) ...	—
E1164	J.	(CV1091) ...	—
E1180	J.	(CV1077) ...	—
E1189	J.	(CV1255) ...	—
E1190	J.	(CV55) ...	—
E1191	J.	(CV12) ...	—
E1192	J.	(CV1501) ...	70
E1198	J.	(CV38) ...	—
E1199	J.	CV1405 ...	—
E1200	—	TB3/1000G ...	—
E1209	J.	(CV7) ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
E1228	J.	CV3 ...	—
E1229	J.	CV4 ...	—
E1231	J.	(CV52)	—
E1232	J.	(CV92)	—
E1235	J.	(CV29)	—
E1236	J.	(CV69)	—
E1242	J.	(CV1510)	70
E1248	J.	(CV8) ...	—
E1255	J.	(CV40)	—
E1256	J.	(CV42)	—
E1266	J.	(CV15)	—
E1267	J.	(CV41)	—
E1271	J.	(CV57)	—
E1273	J.	(CV58)	—
E1287	J.	(CV23)	—
E1289	J.	(CV1148)	—
E1297	J.	(CV5) ...	—
E1320	J.	(CV51)	Appendix I
E1323	J.	(CV63)	70
E1325	J.	(CV56)	—
E1326	J.	(CV69)	—
E1331	J.	(CV1510)	—
E1335	J.	(CV61)	—
E1337	J.	(CV78)	—
E1342	J.	(CV64)	—
E1355	J.	(CV1433)	—
E1359	J.	(CV76)	—
E1362	J.	(CV126)	—
E1365	J.	(CV114)	—
E1368	J.	(CV90)	—
E1371	J.	(CV105)	—
E1373	J.	(CV99)	—
E1379	J.	(CV79)	—
E1380	J.	(CV89)	—
E1411	J.	(CV153)	—
E1413	—	— ...	70
E1415	J.	(CV115)	—
E1416	J.	(CV281)	—
E1417	J.	(CV117)	—
E1419	J.	(CV154)	—
E1423	J.	CV406	—
E1429	J.	(CV79)	—
E1436	J.	(CV188)	—
E1453	J.	(CV1646)	—
E1457	J.	(CV257)	—
E1458	J.	(CV168)	—
E1459	J.	(CV174)	—
E1465	J.	(CV236)	—
E1468	J.	(CV172)	—
E1474	J.	(CV78)	—
E1478	—	— ...	70
E1481	J.	(CV192)	—
E1484	—	— ...	70
E1485	J.	(CV807)	—
E1487	J.	(CV208)	—
E1489	—	— ...	70

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
E1494	J.	(CV191)	—
E1495	J.	(CV259)	—
E1496	J.	(CV240)	—
E1497	J.	(CV215)	—
E1511	J.	{ (CV355) (CV356)	—
E1516	J.	(CV221)	—
E1517	—	— ...	70
E1518	—	— ...	70
E1524	J.	(CV338)	—
E1527	J.	(CV290)	—
E1531	J.	(CV214)	—
E1532	J.	(CV1624)	—
E1541	J.	(CV1716)	—
E1563	J.	(CV1863)	—
E1591	J.	(CV181)	—
E1599	J.	(CV272)	—
E1606	J.	(CV278)	70
E1624	—	— ...	70
E1633	J.	(CV456)	—
E1647	J.	(CV288)	—
E1648	J.	(CV135)	—
E1654	—	— ...	70
E1659	J.	(CV543)	—
E1662	—	— ...	70
E1677	—	— ...	70
E1678	—	— ...	70
E1681	—	— ...	70
E1682	—	— ...	70
E1706	J.	(CV437)	70
E1709	—	— ...	70
E1714	J.	(CV408)	—
E1733	—	— ...	70
E1736	—	— ...	70
E1740	—	— ...	70
E1751	—	— ...	70
E1769	J.	(CV397)	—
E1780	—	— ...	70
E1787C	—	— ...	70
E1794	—	— ...	70
E1795	—	— ...	70
E1796	—	— ...	70
E1809	—	— ...	70
E1813	—	— ...	70
E1816	—	— ...	70
E1835	—	— ...	70
E1838	—	— ...	70
E1848	—	— ...	70
E1860	J.	(CV240)	—
E1861	—	— ...	142
E1884	—	— ...	71
E1912	—	— ...	71
E1935	J.	(CV415)	71
E1938	J.	(CV493)	71
E1954	J.	(CV25), ES85	—
E1955	J.	(CV797), 2D21	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
E1956	J.	(CV261), 2T/270K	—	EABC80	A.F.M.MMM. H.N.FFF.	6AK8, 6LD12, 6T8	71
E1959	J.	(CV495)	...	EAC91	M.	(CV137)	71
E1969	—	— ...	71	EAF21	—	— ...	71
E1976	—	— ...	71	EAF41	N.FFF.M.	— ...	71
E1984	—	— ...	71	EAF42	N.	CV3883, 6CT7	71
E1985	—	— ...	71	EB4	N.U.FFF.M.	— ...	71
E1987	—	— ...	71	EB11	N.FFF.	— ...	71
E1994	—	— ...	71	EB34	M.U.	(CV1054), 6H6	71
E1996	J.	(CV436)	...	EB40	—	— ...	71
E2204	J.	(CV2115)	...	EB41	N.	CV3881	71
E2016	J.	(CV1758)	...	EB91	M.	(CV140), 6D2, 6AL5	71
E2018	J.	(CV454)	...	EB111	—	— ...	143
E2020N	—	— ...	71	EBC1	—	— ...	71
E2047	—	— ...	71	EBC3	M.U.	CV1428	71
E2095	J.	(CV471)	...	EBC11	N.FFF.	— ...	72
E2122	—	— ...	71	EBC21	M.	(CV347)	72
E2128	—	— ...	71	EBC30	—	— ...	72
E2133	J.	(CV2276)	...	EBC33	M.U.	(CV1055)	72
E2134	J.	(CV2179)	...	EBC41	N.A.	CV3882, 6CV7, 6LD3	72
E2153	—	— ...	71	EBC51	N.	— ...	72
E2163	J.	(CV491)	...	EBC80	—	— ...	72
E2164	J.	(CV492)	...	EBC81	N.M.	6LD13	72
E2178	—	— ...	71	EBC90	M.N.	(CV452), 6AT6	72
E2179	—	— ...	71	EBC91	N.M.	6AV6, CV2526	72
E2185	—	— ...	71	EBF1	—	— ...	72
E221	J.	(CV2277)	...	EBF2	M.	CV2925	72
E2223	—	— ...	71	EBF2G	—	— ...	143
E2256	—	— ...	71	EBF11	U.N.MMM. FFF.	— ...	72
E2382	—	— ...	71	EBF15	—	— ...	72
E2754	—	— ...	142	EBF21	—	— ...	72
E4103/B/4	J.	(CV1522)	...	EBF32	M.	CV2925, 3CV01	72
E4103/E/4	J.	(CV2205)	...	EBF35	—	— ...	72
E4205/B/7	J.	(CV1588)	...	EBF80	A.N.H.MMM. FFF.M.	6N8	72
E4025/C/7	J.	(CV1525)	...	EBF81	—	— ...	72
E4412/B/9	J.	(CV1587)	...	EBF83	M.	6DR8	—
E4412/C/9	J.	(CV2301)	...	EBF89	N.M.	6DC8, 6DF12	72
E4412/E/9	J.	(CV1529)	...	EBF171	—	— ...	72
E4412/M/9	J.	(CV1521)	...	EBL1	KKK.N.U. FFF.M.	— ...	72
E4504/B/16	J.	(CV1385)	...	EBL21	N.FFF.M.	— ...	72
E4504/C/16	J.	{(CV1517) (CV1592)	...	EBL31	KKK.U.M.	CV2926	72
E4504/E/16	J.	(CV1391)	...	EBL71	—	— ...	72
E4504/M/16	J.	(CV966)	...	EBL131	M.U.	CV2926	—
E40A	—	— ...	71	EC2	—	— ...	72
EA50	M.	(CV1092), CV375	71	EC21	—	— ...	72
EA52	M.	CV5140, 6923	...	EC31	M.	CV1433	72
EA63	—	— ...	143	EC40	—	— ...	72
EA76	M.	(CV469), 6489	71	EC41	—	— ...	72
EAI11	—	— ...	71	EC50	M.	CV2927	—
EA962	—	— ...	143	EC52	M.	(CV1137)	72
EAA11	—	— ...	71	EC53	M.	(CV1197)	72
EAA91	MMM.N.FFF.	6AL5	...	EC54	M.	(CV66)	72
EAA901	—	— ...	71	EC55	M.N.	(CV273)	—
EAA901S	—	5726	...				
EABI	M.N.U.FFF.	— ...	71				

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
EC56	N.M.	— ...	143
EC57	N.M.	— ...	143
EC70	M.	(CV468), 6778 ...	72
EC71	M.	5718 ...	143
EC80	N.M.	(CV1886) ...	72
EC81	N.M.	(CV1865), 6R4, ... CV1886	72
EC84	—	— ...	72
EC86	—	— ...	143
EC88	—	— ...	143
EC90	M.	(CV133), 6C4 ...	72
EC91	M.	(CV417), 6234, 6AQ4	72
EC92	MMM.N.FFF.	6AB4 ...	72
EC93	—	— ...	72
EC94	MMM.	— ...	72
EC95	—	— ...	143
EC98	—	— ...	143
EC157	—	— ...	143
EC760	—	— ...	143
EC903	—	— ...	143
ECC31	M.	(CV1285) ...	72
E3CC2	M.	(CV181), 6SN7GT	72
ECC33	M.	CV2821 ...	72
ECC34	M.	— ...	73
ECC35	M.	(CV569), 6SN7GT	73
ECC40	N.	CV3884 ...	73
ECC70	M.	— ...	143
ECC81	M.	(CV455), 12AT7	73
ECC82	M.	(CV491), 12AU7	73
ECC83	M.	(CV492), 12AX7, 6U3	73
ECC84	M.N.U.H.A. MMM.	6CW7 ...	73
ECC85	M.F.H.A. MMM.N.FFF.	6L12, 6AQ8 ...	73
ECC86	—	— ...	143
ECC88	M.BB.	A16DJ8 ...	143
ECC91	M.	(CV858), 6J6	73
ECC180	—	— ...	73
ECC186	—	— ...	143
ECC189	—	— ...	143
ECC230	N.	— ...	143
ECC801	—	— ...	73
ECC801S	SSS.	6201 ...	143
ECC802	—	— ...	143
ECC802S	—	6067 ...	73
ECC803	—	— ...	143
ECC865	—	— ...	143
ECC960	—	— ...	143
ECC962	—	E92CC... ...	143
ECF1	N.FFF.	— ...	73
ECF12	—	— ...	73
ECF80	N.M.B.B.	— ...	73
ECF82	MMM.M.A.	6U8 ...	73
ECF83	—	— ...	143
ECF86	—	— ...	143
ECH2	U.M.	— ...	73

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
ECH3	M.U.	(CV2929) ...	73
ECH3G	—	— ...	143
ECH4	N.M.	— ...	73
ECH4G	—	— ...	73
ECH11	N.MMM. U.FFF.	— ...	73
ECH21	N.FFF.M.	— ...	73
ECH22	M.	(CV302) ...	—
ECH33	M.	CV2930 ...	73
ECH35	M.U.	(CV1347) ...	73
ECH41	N.FFF.M.	— ...	73
ECH42	N.	CV3888, 6CU7 ...	73
ECH43	FFF.	— ...	73
ECH71	—	— ...	73
ECH80	—	— ...	73
ECH81	N.M.BB.	(CV2128), 6AJ8, C612	73
ECH83	M.	6DS8 ...	143
ECH113	—	ECH42 ...	143
ECH171	—	— ...	143
ECL11	N.MMM.FFF.	— ...	74
ECL80	A.F.D.H.N. BB.FFF.	6AB8 ...	74
ECL81	MMM.	— ...	74
ECL82	N.A.	6BM8 ...	74
ECL83	M.	— ...	74
ECL84	—	6DX8 ...	143
ECL85	—	— ...	144
ECL86	—	— ...	144
ECL113	—	— ...	74
ECR30	M.	(CV1588) ...	—
ECR35	M.	CV1587, 901A ...	—
ECR57	M.	(CV1587) ...	—
ECR60	M.	(CV1097), 1601A ...	—
ECR75	M.	CV1587 ...	74
ED111	—	— ...	74
EDD11	FFF.	— ...	74
EDD111	—	— ...	74
EE1	—	— ...	144
EE17	—	PL5557... ...	—
EE50	N.M.	— ...	74
EE866	—	DCG4/1000G ...	—
EE8020	—	CV2967 ...	—
EEL71	—	— ...	74
EEL171	—	— ...	144
EEP1	N.FFF.	— ...	74
EEP71	—	— ...	74
EF1	—	— ...	74
EF2	M.	— ...	74
EF3	—	— ...	74
EF5	N.U.M.	EF9 ...	74
EF6	N.U.FFF.	— ...	74
EF6N	—	— ...	144
EF7	—	— ...	74
EF8	M.U.	(CV1713), EF9 ...	74
EF9	M.U.	CV1427 ...	74
EF9N	—	— ...	144

Commercial		Equivalent (or nearest in brackets)	Page	Commercial		Equivalent (or nearest in brackets)	Page
Valve	Manufacturer			Valve	Manufacturer		
EF11	N.MMM.U. FFF.	— ...	74	EF112	—	— ...	75
EF12	N.MMM. U.FFF.	— ...	74	EF172	—	— ...	75
EF12 Spec.	—	— ...	74	EF174	—	— ...	75
EF13	N.MMM. FFF.	— ...	74	EF175	—	— ...	75
EF14	MMM.	— ...	74	EF183	—	— ...	144
EF15	—	— ...	74	EF184	—	— ...	144
EF22	M.	(CV303), 7B7	74	EF190	—	— ...	75
EF25	—	— ...	74	EF410	—	— ...	75
EF36	M.	(CV1056), CV1404	74	EF730	M.	5636	144
EF37	M.	(CV358)	74	EF731	FFF.M.	5899	144
EF37A	M.	CV5080	74	EF732	FFF.	5840	144
EF38	M.	— ...	74	EF734	M.	6205	144
EF39	M.U.	(CV1053), 6K7GT	74	EF762	—	— ...	144
EF40	N.	CV3885	74	EF800	—	— ...	75
EF41	N.	CV3886, 6CJ5	74	EF802	—	— ...	75
EF42	N.	CV3887	74	EF804	—	— ...	75
EF43	N.FFF.	— ...	74	EF804S	—	— ...	75
EF44	—	— ...	74	EF805S	—	— ...	75
EF50	M.	(CV1091), CV1578	—	EF806S	—	— ...	144
EF51	M.	(CV1035)	75	EF860	—	— ...	144
EF52	M.	(CV327)	75	EF861	—	E180F, 6688	144
EF53	N.	— ...	75	EF905	—	— ...	144
EF54	M.	(CV1136)	75	EFF50	N.FFF.	— ...	75
EF55	M.	(CV173)	75	EFF51	N.FFF.	— ...	75
EF70	M.	(CV467), 6487	75	EFM1	M.N.U.FFF.	— ...	75
EF71	M.	CV475	75	EFP20	—	— ...	75
EF72	M.	(CV465)	75	EFP60	M.	CV5108	144
EF73	M.	(CV466), 6488	75	EG420	—	— ...	75
EF74	M.	{(CV476), 6391 (CV472), 6391	75	EH1	—	— ...	76
EF80	B.F.H.MMM. A.M.N.FFF.	CVZ1376, 6BX6...	75	EH2	N.U.M.	— ...	76
EF81	—	— ...	75	EH90	N.FFF.	6CS6	76
EF82	—	— ...	75	EH900	—	— ...	76
EF83	N.	— ...	75	EHA5000	D.	CV2687	—
EF85	F.H.MMM. M.N.FFF.	CV1375, 6BY7, 6F19	75	EHM2	J.	(CV2139)	—
EF86	N.	CV2901, 6267, 6F22, 6CF8, 2729	75	EHT1	J.	(CV19)	—
EF87	—	— ...	75	EHT15	D.	ESU15	—
EF88	—	— ...	75	EHW3000	D.	CV2686	—
EF89	M.A.	6DA6, CV5156	—	EK1	—	— ...	76
EF89F	NN.	— ...	144	EK3	N.U.M.	— ...	76
EF91	M.	(CV138), 6AM6, 6F12	75	EK2	U.M.	CV1426	76
EF92	M.	(CV131), 6CQ6, D96 6F12	75	EK2G	—	— ...	144
EF93	M.	(CV454), 6BA6	75	EK3	N.U.M.	— ...	76
EF94	N.M.	CV2524, 6AU6	75	EK32	M.	(CV1057)	76
EF95	M.	(CV850), 6AK5	75	EK90	N.M.	(CV453), 6BE6	76
EF96	MMM.	6AG5	75	EL1	—	— ...	76
EF97	M.	6ES6	144	EL1-IC	—	3B22	—
EF98	M.	6ET6	144	ELIC	—	3B22	—
EF111	—	— ...	75	EL2	M.U.	CV1429	76
				EL3C	—	CV822, 4B24	—
				EL3N	N.	— ...	76
				EL3NG	—	— ...	144
				EL3/375	FFF.	— ...	76
				EL3/425	—	— ...	144
				EL5	—	— ...	—
				EL5/375	FFF.	— ...	76
				EL5G	—	— ...	144

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
EL5/600	—	— ...	144
EL5B	X.	CV2936	—
EL6	M.N.U.FFF.	— ...	76
EL6 Spec.	FFF.	— ...	76
EL8	FFF.	— ...	76
EL11	N.MMM. U.FFF.	— ...	76
EL11N	—	— ...	76
EL12	N.MMM. FFF.U.	— ...	76
EL12 Spec.	MMM.	— ...	76
EL12/325	FFF.	— ...	76
EL12/375	FFF.	— ...	76
EL13	—	— ...	76
EL20	— ...	— ...	76
EL22	M.	(CV304)	76
EL30	—	— ...	144
EL31	M.	CV2888	76
EL32	M.	(CV1052)	76
EL33	M.U.	CV2938, 6AG6G	76
EL34	N.FFF.M.	CV1741, 6CA7	76
EL35	M.	(CV1286), 6L6G	76
EL36	M.U.NNN.	CV2940, 6CM5	76
EL37	M.	CV586, 6L6, KT66	76
EL38	M.	(CV450), 6CN6	76
EL39	—	— ...	76
EL41	N.	CV3889, 6CK5	76
EL42	N.	CV3890	76
EL43	—	— ...	76
EL44	—	— ...	76
EL50	M.	CV2941	76
EL51	N.FFF.	— ...	76
EL53	—	— ...	77
EL54	—	— ...	77
EL60	N.FFF.	— ...	77
EL70	M.	(CV471)	77
EL71	M.	5902	144
EL80	—	— ...	77
EL81	M.N.	(CV2721), 6C16...	77
EL81F	—	— ...	77
EL82	N.	— ...	77
EL83	M.N.	CV2726, 6CK6	77
EL84	M.A.BB.N.	CV2975, 6BQ5, 6PI5	77
EL85	M.	CV3526, 6BN5	77
EL85	M.	CV3526, 6BN5	77
EL88	—	— ...	77
EL89	—	— ...	77
EL90	M.	(CV1862), 6AQ5	77
EL91	M.	(CV136), 6AM5	77
EL95	N.M.	— ...	77
EL131	—	— ...	144
EL150	—	— ...	77
EL171	—	— ...	77
EL172	—	— ...	77
EL180	—	— ...	77
EL183	—	— ...	144

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
EL300	—	— ...	144
EL360	M.	(EL36)	144
EL803	—	— ...	77
EL803S	—	— ...	144
EL804	—	— ...	77
EL820	M.	— ...	77
EL821	M.	CV2127, 6CM6	77
EL822	M.	CV2382	77
EL861	—	E81L, 6686	144
EL863	—	— ...	144
ELC3J	—	TX2/3, 5632	—
ELC6J	—	5632	—
ELC6J/A	—	TX2/6, 5684	—
ELLI	N.U.	— ...	77
ELL80	—	— ...	144
ELP71	—	— ...	77
ELP72	—	— ...	77
ELP73	—	— ...	77
EMI	M.	CV2942	Appendix I
EM3	M.N.	— ...	Appendix I
EM4	M.U.	CV1434	Appendix I
EM11	M.N.	— ...	Appendix I
EM31	M.	(CV1077)	Appendix I
EM34	M.	(CV394), 6DC7	Appendix I
EM35	M.	6M2, (CV1103), 6U5G	Appendix I
EM71	A.	— ...	Appendix I
EM80	M.	6BR5, CV1352	Appendix I
EM80	M.	6BR5, CV1352	Appendix I
EM81	M.	6DA5, CV5055	Appendix I
EM84	M.N.	RM840...	Appendix I
EM85	M.N.A.	— ...	Appendix I
EM840	M.N.A.	EM84	Appendix I
EMG1	—	— ...	144
EN30	H.	(CV2349)	—
EN32	M.	(CV2253)	—
EN70	M.	(CV474), 5643	—
EN91	M.	20A3, 2D21, CV797	—
EN92	M.	CV3512, 5696	—
EN93	M.	CV1949, 6D4	—
EN707	—	— ...	—
EN91	M.	(CV797)	—
EQ80	N.FFF.M.	6BE7	77
ER4	—	— ...	77
ES15	D.	CV3853	—
ES85	D.	(CV25), 4242A	—
ES40A	D.	CV2563	—
ES207	D.	CV3850	—
E2550M	D.	(CV1618)	—
ES532	D.	CV3851	—
ES357	D.	(CV27)	—
ES450	D.	(CV1207)	—
ES833	D.	(CV635)	—
ES1500	D.	(CV1614)	—
ES1500A	D.	(CV1614)	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
ESA891	D.	CV2688 ...	—
ESA892	D.	CV701 ...	—
ESA892C	D.	CV904 ...	—
ESA5000	D.	(CV2687) ...	—
ESG250	D.	(CV1031) ...	—
ESP450	D.	(CV1506) ...	—
ESU15	D.	EHT15 ...	—
ESU74	D.	(CV74) ...	—
ESU75	D.	CV2943 ...	—
ESU76	D.	CV2945 ...	—
ESU77	D.	(CV2160) ...	—
ESU150	D.	CV2946 ...	—
ESU200	D.	(CV5), 4049D, GU20/21 ...	—
ESU208	D.	(CV1260) ...	—
ESU300	D.	CV2947 ...	—
ESU450	D.	(CV1259) ...	—
ESU866	D.	(CV32), DQ2 ...	—
ESU872	D.	CV642, DQ4 ...	—
ESU1500	D.	CV2944 ...	—
ESU8008	—	DCG5/5000S ...	—
ESW501	D.	(CV1621) ...	—
ESW5000	D.	(CV2686) ...	—
ET3	J.	CV541 ...	—
ET30	D.	(CV1030) ...	—
ET51	M.	6700 ...	—
ET1000	—	TB4/800 ...	—
EW2A	X.	CV2139 ...	—
EW60	—	— ...	77
EY51	M.	(CV426), 6X2 ...	77 & Appendix II
EY70	M.	(CV473) ...	77
EY80	N.	— ...	77
EY81	MMM.N.	6R3 ..	77
EY82	M.	— ...	77
EY83	N.	— ...	77
EY84	A.	— ...	77
EY84	M.	(CV2235), 6374, R18 ...	77
EY86	H.MMM.	CV2966, 6S2 ...	77
EY87	FFF.M.	— ...	77
EY87	N.	— ...	77
EY88	—	— ...	144
EY91	M.	(CV135) ...	77
EY92	—	— ...	77
EY3000	—	— ...	144
EYY13	MMM.	— ...	77
EZ1	M.	— ...	78
EZ2	N.U.FFF.M.	— ...	78
EZ3	U.M.	— ...	78
EZ4	N.U.FFF.	— ...	78
EZ11	MMM.FFF.	— ...	78
EZ12	MMM.FFF.	— ...	78
EZ22	M.	(CV346) ...	78
EZ33	—	— ...	78
EZ35	M.U.	(CV574), 6X5GT ...	78
EZ40	N.A.	CV3891, 6BT4 ...	78

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
EZ41	M.N.FFF.	— ...	78
EZ80	A.M.F.H.	CV1535, 6V4 ...	78
	MMM.N.FFF.	—	—
EZ81	N.M.A.	CV5072, 6CA4 ...	78
EZ82	—	— ...	78
EZ90	M.	(CV493), 6X4 ...	78
EZ91	—	— ...	78
EZ900	—	— ...	145
F2	D.	(CV2338) ...	—
F2A11	—	— ...	145
F5	—	— ...	78
F10	—	— ...	78
F100	—	— ...	78
F109	—	— ...	78
F60	—	1163 ...	—
F109A	—	— ...	145
F123A	—	CV2949, T100-1 ...	—
F129B	—	CV2950 ...	—
F203	—	— ...	78
F209A	—	— ...	78
F209	—	— ...	78
F215	—	— ...	78
F242	—	— ...	78
F28A	CCC.	CV734 ...	—
F353	CCC.	CV642 ...	—
F353A	CCC.	CV642, 872A, DQ4 ...	—
F366A	CCC.	(CV32), 866A ...	—
F410	N.	— ...	78
F443	—	— ...	78
F443N	N.	— ...	78
F460	—	— ...	78
F704	—	— ...	78
F707	N.	— ...	78
F708	—	— ...	78
F869B	—	CV2723 ...	—
F869B	—	CV2723 ...	—
F872A	—	CV642, DQ4 ...	—
F872B	—	CV642 ...	—
F892R	CCC.	CV904 ...	—
F/2726	A.	CV4049 ...	—
F/2750	A.	CV4037 ...	—
F/5654	A.	CV4050 ...	—
F/5750	A.	CV4037 ...	—
F/6057	A.	CV4035 ...	—
F/6060	A.	CV4033 ...	—
F/6061	A.	CV4045 ...	—
F/6063	A.	(CV4001) ...	—
F/6064	A.	(CV4002) ...	—
F/6067	A.	CV4034 ...	—
F/6132	A.	CV4056 ...	—
F/6158	A.	CV4051 ...	—
F/7001	A.	— ...	145
FA13	—	CV2952 ...	—
GA14	—	CV2953 ...	—
FA15	—	(CV298) ...	—
FB50	4004B	— ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
FC2	M.	(CV1043) ...	78
FC2A	M.	CV2954 ...	78
FC4	M.	15A2, V04, CV2955	78
FC13	M.	— ...	78
FC13C	M.	CV2956, V013 ...	79
FC14I	—	— ...	79
FG17	WW.	CV2957, 5557, TQ2	—
FG27A	I.	CV2958, 873 ...	—
FG57	—	57 ...	—
FG67	—	CV742 ...	—
FG105	—	PL105 ...	—
FG154	—	3V/390B ...	—
FG235A	—	PL5552A ...	—
FG238A	—	P:5553B ...	—
FG27I	—	PL5551A ...	—
FH2118	—	— ...	79
FP54	—	CV2960 ...	—
FT4	—	— ...	Appendix I
FVD7	II.	(CV404) ...	—
FWI	—	— ...	79
FW3	—	— ...	79
FW4/500	M.	(CV1254), RV200/600	79
FW4/800	M.	(CV31) ...	79
FX215	G.	(CV2203), GHTI	—
FX129	G.	(CV2520) ...	—
FX225	G.	CV1787 ...	—
FX227	G.	CV372 ...	—
FX229	G.	CV352I ...	—
FX23I	G.	CV2993 ...	—
FY	—	PM24M ...	79
FZ1	—	— ...	79
FZ9011G	—	90AG ...	—
FZ9011V	—	90AV ...	—
FZ9012G	—	90CG ...	—
FZ9012V	—	90CV ...	—
G	—	— ...	79
G1/235G	R.	CV3524 ...	—
G1/371K	R.	(CV2224) ...	—
G5H	X.	{ CV2247 ...	—
		(CV2233) ...	—
G/6C4	A.	— ...	145
G-9	—	WL868, 918 ...	—
G10H	X.	(CV2173) ...	—
G10HE	X.	CV2287 ...	—
G10/24IE	R.	(CV2223) ...	—
G14	—	WL920 ...	—
G15F	—	WL927 ...	—
G20/5D	—	DQ6 ...	—
G24	X.	CV411 ...	—
G24E	X.	(CV2148) ...	—
G24H	X.	(CV2147) ...	—
G/25L6	A.	— ...	79
G48	—	1163 ...	—
G49	—	1163 ...	—
G50/1G	A.	(CV2208) ...	—
G/50C5	A.	— ...	79

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
G60E	X.	(CV2149) ...	—
G75/2D	R.	(CV3798), VR75/30	—
G75/3G	R.	CV4030 ...	—
G84	—	— ...	79
G105/ID	R.	(CV686), VR105/30	—
G108/IK	R.	CV1833, OB2 ...	—
G120/ID	R.	(CV438) ...	—
G150/1A	R.	(CV75) ...	—
G150/2D	R.	(CV413) ...	—
G150/3D	R.	(CV216) ...	—
G150/4K	R.	CV1832, OA2 ...	—
G180/2G	R.	CV2029 ...	—
G180/2M	R.	(CV395), QS150/45	—
G210/IC	R.	(CV212) ...	—
G240/2D	R.	(CV2174) ...	—
G400/IK	R.	(CV2194) ...	—
G400/2G	R.	CV4047 ...	—
G407	—	— ...	79
G409	—	— ...	79
G43I	—	DW2 ...	79
G445B	—	(CV165I) ...	—
G459	—	— ...	79
G460	—	— ...	79
G470	—	DW2 ...	79
G504	FFF.	— ...	79
G660	—	— ...	79
G715	—	— ...	79
G1054	—	— ...	79
G1604	FFF.	— ...	79
G1380	—	— ...	79
G1404	FFF.	— ...	79
G1503	FFF.	— ...	79
G2004	FFF.	— ...	79
G2005	—	— ...	79
G2080	LLL.	(CYI), (URIC) 79 & 145	—
G2504	FFF.	— ...	79
G3060	R.LLL.	— ...	145
G4004	FFF.	— ...	79
G4100	—	— ...	79
G4120	—	DW4-500 ...	79
G4120N	LLL.	IW4-500 ...	145
G4150	—	— ...	79
G4180	—	— ...	79
G4300	—	— ...	79
G/5749	A.	— ...	79
G/5750	A.	— ...	79
G/6042	A.	— ...	79
G/5059	A.	— ...	79
G/6060	A.	— ...	79
G/6061	A.	— ...	79
G/6062	A.	— ...	79
G/6066	A.	— ...	80
G/6100	A.	— ...	80
G/6132	A.	— ...	80
G/6157	A.	— ...	80
G/6158	A.	— ...	80

Commercial	Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial	Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
G/6180	A.	—	...	80	GM5	XX.	(CV411)	...	—
G/6443	A.	—	...	80	GM5B	XX.	(CV2148)	...	—
G/6156	A.	—	...	80	GN24	—	DW2 ...	...	80
GA5A	—	VC2647	...	—	GR1	—	TV801	...	—
GCI0A	ZZ.	(CV2199)	...	—	GR4	—	— ...	...	80
GCI0B/S	ZZ.	(CV2271), Z303C	...	—	GS10C/S	ZZ.	(CV2325), Z502S	...	—
GCI0/4B	ZZ.	CV1739	...	—	GS16SO	—	—	...	—
GD86W/S	ZZ.	CV2321	...	—	(80-110)	XX.	(CV2694)	...	—
GD100A/S	—	CV188	...	—	GS16/160	XX.	(CV248)	...	—
GD100B/S	—	CV1070	...	—	GS16	—	—	...	—
GDI20A/S	ZZ.	CV1110	...	80	(80-110)	XX.	(CV1473)	...	—
GDI20A/S	—	CV45 ...	...	—	GS18	XX.	(CV242)	...	—
GDI50A/S	ZZ.	CV216, OD3	...	—	GS26	XX.	(CV1432)	...	—
GDI50M/S	ZZ.	CV1832	...	—	GS544X	XX.	CV1913	...	—
GDT4B	C.	(CV1141)	...	—	GS46	XX.	CV584	...	—
GD86W	ZZ.	(CV2321)	...	—	GS47X	XX.	(CV405), 3546PW	...	—
GET2	J.	CV743	...	—	GS118	XX.	CV1801	...	—
GEX35	J.	(CV4r2)	...	—	GS146	XX.	CV2692	...	—
GEX36	J.	(CV2279)	...	—	GT1	J.	CV2969	...	—
GEX45/I	J.	(CV425), 2X106G	...	—	GT1A	J.	(CV1143)	...	—
GEX54	J.	CV448	...	—	GTIC	J.	(CV1128)	...	80
GEX64	J.	(CV2310)	...	—	GTIE	J.	CV530	...	—
GEX66	J.	CV2290	...	—	GTII	—	(CV435)	...	—
GEX402	G.	CV2902	...	—	GTE20000/	—	—	...	—
GEX54I	—	(CV5104)	...	—	2.5/10	—	6508, DCG9/2	...	—
GGI	—	— ...	...	80	GTR95M/S	ZZ.	(CV286)	...	—
GHT1	J.	CV2203, FX215	...	—	GTR120A/S	—	CV45 ...	...	—
GHT2	J.	CV2418	...	—	GTR150M/S	ZZ.	(CV287)	...	—
GL203A	—	— ...	...	80	GUI	J.	(CV1262)	...	—
GL446	—	CV3725	...	—	GU5	J.	(CV1072)	...	—
GL446A	—	CV932	...	—	GU7	J.	CV2973	...	—
GL446B	—	CV687	...	—	GU8	J.	(CV1628)	...	—
GL455	—	CV2789	...	—	GUI1	J.	CV532	...	—
GL464	—	CV3604	...	—	GUI2	J.	CV32, DQ2	...	—
GL464A	—	CV688	...	—	GUI8	J.	CV1629	...	—
GL471A	—	CV3586	...	—	GU20/21	J.	CV5 ...	...	—
GL532	—	CV2647	...	—	GU20	J.	CV1435, AH211	...	—
GL572	—	2C39A	...	—	GU21	J.	(CV5), 4049D, ESU200	...	—
GL592	—	CV1903	...	—	GU50	J.	(CV1072), RGI-240A,	...	—
GL806	—	CV2658	...	—	—	—	ESU101	...	—
GL868	—	(CV2680)	...	—	GX4W	—	CV4005	...	—
GL889R	—	(CV2687)	...	—	GX402	G.	(CV2902)	...	—
GL889RA	—	(CV2687)	...	—	GXU1	J.	CV1825, 3B28	...	—
GL892R	—	(CV904)	...	—	GXU2	J.	CV2518, 4B32	...	—
GL918	—	(CV2692)	...	—	GXU3	J.	CV2399, AX228,	...	—
GL927	—	3546PW	...	—	—	—	2G/473C	...	—
GLE10,000/	—	—	...	—	GXU4/1000	—	DCX4/5000	...	—
25/I	—	DCG4/100ED	...	—	GY11	—	— ...	...	80
GLE200,00/	—	—	...	—	GZ30	M.	CV2748, 5Z4GT	...	80
2.5/10	—	6508, DCG9/2	...	—	GZ31	M.	5U4G ...	...	80
GL2050	—	CV2565	...	—	GZ32	M.	CV593	...	—
GL8020	—	CV2967	...	—	GZ33	M.	CV378	...	80
GL8023	—	CV933	...	—	GZ34	M.N.FF.	CV1377, 5AR4	...	—
GLY1	—	I652M	...	—	GZ37	M.	CV378	...	144
GMI8	XX	(CV2149)	...	—	GZ40	—	— ...	...	80
GM4	J.	(CV2138)	...	—	—	—	—	...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
GZ4I	—	— ...	80
H2	J.D.	CV2977, PM2HL	80
H2D	H.	(CV1044), TDD2A	—
H4	—	— ...	80
H4D	H.	— ...	80
H12	J.	CV2978	80
H13	—	— ...	80
H20	—	— ...	80
H30	J.	CV2979	80
H42	J.	(CV1182), HL4G	80
H45	—	(CV372)	—
H63	J.	(CV1073), 6F5G	—
HI41D	—	— ...	80
H210	J.R.R.	(CV1673), PM2HL	80
H406D	FFF.	— ...	80
H407 Spec.	FFF.	— ...	80
H410D	FFF.	— ...	80
H410	J.	CV2981	80
H412	—	— ...	80
H607	—	— ...	80
H610	J.	CV2982	—
HI818D	FFF.	— ...	80
HI918D	FFF.	— ...	80
H2018D	FFF.	— ...	80
H2518D	FFF.	— ...	80
H2861D	FFF.	— ...	80
H4080D	FFF.	— ...	80
H4111D	FFF.	— ...	80
H4115D	FFF.	— ...	80
H4125D	FFF.	— ...	80
H4128D	FFF.	— ...	81
H4129D	FFF.	— ...	81
H4129D	FFF.	— ...	81
HAI	J.	(CV1171)	—
HA2	J.	(CV1059)	—
HAA91	—	I2AL5	81
HABC80	—	— ...	81
HAD	H.	(CV1419), 1LD3	81
HBC80	—	I9T8	—
HBC90	M.	I2AT6	81
HBC91	M.	I2AV6	81
HCH81	—	— ...	81
HD2	—	— ...	81
HDI4	J.	(CV1818), IH5G	81
HD21	J.	— ...	81
HD22	J.	TDD2A	81
HD24	J.	CV2985, TDD2A	81
HD30	—	— ...	145
HD51	—	OA2	—
HD52	—	OB2	—
HD93	—	— ...	145
HD203A	HHH.	CV2986	—
HF61	—	— ...	81
HF62	—	— ...	81
HF85	—	— ...	81
HF93	M.	(CV1928), I2BA6	81

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
HF94	—	I2AU6	81
HF100	AAA.	CV2987	—
HF121	—	— ...	81
HF130	AAA.	CV638	—
HF150	—	T100-I	—
HF175	—	T100-I	—
HG2	—	DQ2A	—
HF200	AAA.	CV2988, 3C150A	—
HF300	AA.	CV693	—
HK24	—	CV941	—
HK24G	—	CV789	—
HK54	—	CV707	—
HK90	M.	I2BE6	81
HK357	—	CV824	—
HK254E	—	CV2989	—
HL2	D.J.H.	(CV1673), PM2HL	81
HL2Met	NNN.	CV2991	81
HL2K	J.	(CV1050), PM2HL	81
HL3	—	— ...	81
HL4	U.	(CV1173)	81
HL4G	U.	— ...	81
HL4X	U.	(CV1037)	81
HL4	U.	— ...	—
HL13	U.M.	— ...	81
HL13C	M.	(CV1109), 4DI	81
HL13G	—	— ...	81
HL13S	U.	— ...	81
HL21	J.	(C3VI303)	81
HL21DD	D.	(CV1044), TDD2A	81
HL22	D.H.	— ...	81
HL22DD	—	— ...	81
HL23	D.	(CV1130)	81
HL23DD	D.	CV2995	81
HL25	U.	— ...	81
HL41	D.	(CV24)	81
HL41DD	D.	CV2996	81
HL42DD	D.	— ...	81
HL84	—	— ...	82
HL90	—	— ...	82
HL92	M.	(CV1959), 50C5...	82
HL94	—	— ...	82
HL133	D.	CV2998	82
HL133DD	D.	CV2999	82
HL134DD	—	— ...	82
HL135	—	— ...	82
HL210	D.J.	CV3500, PM2HL	82
HL210A	J.	CV1303	—
HL410	—	— ...	82
HL607	—	— ...	82
HL610	J.	CV3501	—
HL1320	D.	CV3502, HLI3C, 4DI	82
HLA1	—	— ...	82
HLA2	A.	(CV1678), 354V...	82
HLB1	A.	(CV1021)	82
HLDD/I320	D.	CV3503, DDT13, IID3	82
HM20	—	— ...	82

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
HN309	—	PCL82	82	HY114B	Y.	CV3505	83
HP2	H.	(CV1032)	82	HY115	—	—	83
HP6	U.	(CV138)	82	HY125	—	—	83
HP13	U.	—	82	HY615	Y.	CV3506	83
HP13S	U.	VPI3A	82	HY866	—	—	83
HP210C	—	—	82	HZ50	—	—	83
HP210NC	U.	—	82	IF860	—	—	145
HP210	U.	(CV1322)	82	IL861	—	—	145
HP211	—	—	82	IFW1	OOO.	(CV1039)	—
HP211C	U.	—	82	IRV120/38	U.	—	—
HP215	RR.	(CV1322)	82	IRV120/38	U.	—	83
HP415	U.	(CV1169)	82	IW2	M.	R2	83
HP1018	U.	—	82	IW3	M.	(CV1039), IW4-350	84
HP1118	U.	—	82	IW3-350	M.	CV1039, APV4	84
HP2018	U.	—	82	IW4	—	—	145
HP2118	U.	—	82	IW4/500	M.	(CV1039), APV4, R3	84
HP4100	—	—	82	J231AAA.	—	I163	—
HP4101	U.	(CV1124)	82	JN2-2.5A-5A	—	7091	—
HP4101C	U.	(CV1282), SP4	83	JN2-2.5W	—	7292	—
HP4105	U.	—	83	JP28-20-2	—	7090	—
HP4106	U.	(CV1169)	83	JP2-2	—	7091	—
HP4106C	U.	—	83	JP2-5	—	7028	—
HP4115	U.	(CV1169)	83	JP9-2-5	M.	6972	—
HP4115C	U.	—	83	JP9-7	M.	(CV3676), 2J42, MAG3	—
HR1	H.	R10	83	JP9-7A	M.	(CV370)	—
HR2	H.	R10, (CV261), 2T/270K	83	JP9-7D	M.	CV1866	—
	U.			JP9-15	—	CV3997, 2J42A, MAG4	—
HR2S	U.	—	83	JP9-50	M.	CV2852, 2J56	—
HR3	H.	—	83	JP9-75	—	6972	—
HR4	H.	—	83	JP9-80	M.	CV3569, CV5018,	—
HR5	—	—	83			4J52A	—
HR6	H.	—	83	JP9-80A	M.	CV5018	—
HR7	H.	(CV404)	83	JP9-250	M.	CV2284, 4J50	—
HR8	H.	—	83	JP9-250A	M.	CV3955, 4J78	—
HR9	H.	—	83	JPT9-01	M.	CV2420	—
HR11	H.	—	83	JPT9-02	M.	CV2421	—
HR210	U.	(CV1673) PM2HL,	83	JPT9-60	M.	CV3560, 4J5AI	—
HR406 z	—	—	83	K2	—	DCG4/1000ED	—
HR410	—	—	83	K3A	H.	(CV410)	—
HSD	H.	—	83	K4	—	—	84
HT7	—	XG5-500	—	K7RF4	P.	CV1808	—
HT415	—	CV3540, 5C22	—	K23A	—	—	84
HV18	—	CV2988	—	K23B	KKK.	TDD2A	84
HVRI	M.	—	83 & Appendix II	K24	—	—	84
				K27	—	—	84
HVUI	—	—	83	K30A	—	PM2HL	84
HVR2	M.	CV1290, (CV1134),	83 & Appendix II	K30B	—	—	84
		CV1291	Appendix II	K30C	—	PM2HL	84
HVR2A	M.	—	Appendix II	K30D	—	PM2HL	84
HY24	—	—	83	K30E	—	—	84
HY51B	Y.	(CV702)	—	K30G	KKK.	—	84
HY61	Y.	(CV124), 807	83	K30K	KKK.	PM2HL	84
HY65	—	—	83	K33A	KKK.	—	84
HY75	Y.	CV751	—	K33B	—	—	84
HY90	M.	35W4	83	K40B	—	—	84
HY113	—	—	83	K40N	KKK.	PM12M	84

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
K50M	KKK.	— ...	84
K50N	KKK.	VP2B ...	84
K70B	KKK.	PM22A ...	84
K77A	KKK.	— ...	84
K77B	KKK.	QP22B... ..	84
K80A	KKK.	FC2 ...	84
K80B	KKK.	FC2A ...	84
K301	G.	CV1261 ...	—
K302	G.	(CV2164) ...	—
K305	G.	(CV2263) ...	—
K307	G.	(CV1871) ...	—
K308	G.	(CV2283) ...	—
K312	G.	CV2273 ...	—
K322	G.	(CV2791) ...	—
K324	G.	(CV2304) ...	—
K335	G.	CV2343 ...	—
K435-10	—	ACO44 ...	84
K450-50	—	— ...	84
K1051	—	CV2849 ...	—
K1105P2	—	CV3736 ...	—
K1658	MMM.	— ...	84
K1668	MMM.	— ...	84
K1694	MMM.	— ...	84
K814024	—	CV3514 ...	—
KB2	M.	CV3515 ...	84
KBC1	N.FFF.	— ...	84
KBC32	KKK.M.	— ...	84
KC1	N.FFF.	— ...	84
KC3	N.FFF.	— ...	84
KC4	—	— ...	84
KC50	—	— ...	84
KC51	—	— ...	84
KCD1	—	— ...	85
KCF30	M.	— ...	85
KD21	—	OA3, VR75/30 ...	85
KD24	—	OC3, VR104/30 ...	—
KD25	—	OD3, VR150/30 ...	—
KD50	—	— ...	85
KDD1	N.FFF.	— ...	85
KE50	—	— ...	85
KF1	N.	— ...	85
KF2	N.	— ...	85
KF3	N.FFF.	— ...	85
KF4	N.FFF.	— ...	85
KF7	—	— ...	85
KF8	—	— ...	85
KF35	KKK.M.	— ...	85
KH1	N.	— ...	85
KK2G	N.FFF.	— ...	85
KK2	N.	CV3516 ...	85
KK32	KKK.M.	— ...	85
KL1	FFF.	— ...	85
KL2	FFF.	— ...	85
KL4	N.FFF.	— ...	85
KL5	—	— ...	85
KL35	KKK.M.	— ...	85

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
KLL3	—	— ...	85
KLL32	KKK.M.	— ...	85
KR3	E.	{(CV217) (CV218) ...	—
KR5	—	— ...	85
KR6/1	E.	(CV116) ...	—
KR6/2	E.	(CV237) ...	—
KR6/3	E.	(CV238) ...	—
KR6/4	E.	(CV272) ...	—
KR20	—	— ...	85
KR22	—	— ...	85
KR25	—	— ...	85
KR28	—	— ...	85
KR31	—	— ...	85
KRN2	E.	(CV87) ...	—
KRN3	E.	(CV217) ...	—
KS7-85	M.	2K26 ...	—
KS7-85A	—	5976 ...	—
KS9-20	M.	(CV1795), 723A/B ...	—
KS9-20A	M.	(CV2792), 2K25... ..	—
KS9-20D	—	723A/B ...	—
KT2	J.	(CV1118), PM22A ...	85
KT8	J.	(CV1079) ...	85
KT8C	J.	(CV1079) ...	85
KT9-150W	J.	55395 ...	—
KT16	—	— ...	85
KT21	J.	— ...	85
KT24	J.	(CV1334), PM22A ...	85
KT30	J.	CV3519 ...	85
KT31	J.	CV3530 ...	85
KT32	J.	(CV1287), 25L6 ...	85
KT33	—	25A6G... ..	85
KT33C	J.	(CV1503) ...	85
KT35	J.	— ...	85
KT36	J.	— ...	86
KT38	J.	(CV1576) ...	—
KT41	J.	(CV1181), 7A3 ...	86
KT42	J.	7A2(7Pin), (CV1175), Pen4VA ...	86
KT44	J.	(CV1577) ...	86
KT44T	J.	(CV1576) ...	—
KT45	J.	CV1825 ...	86
KT55	J.	— ...	86
KT61	J.	CV1438, 6AG6, EL33 ...	86
KT63	J.	(CV1186), 6F6G ...	86
KT66	J.	(CV1075), EL37, 6L6G ...	86
KT67	J.	(CV437) ...	86
KT71	J.	50L6gt ...	86
KT72	J.	— ...	86
KT73	J.	— ...	86
KT74	J.	— ...	86
KT76	J.	— ...	86
KT77	—	— ...	145
KT81	J.	(CV885), 7C5 ...	86
KT88	J.	12E13 ...	86
KT101	—	— ...	86

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
KTW61	J.	(CV1100) ...	86
KTW62	J.	(CV1100) ...	86
KTW63	J.	(CV1195), 6K7, 6U7	86
KTW73	J.	(CV1056) ...	86
KTW73M	J.	CV3527 ...	86
KTW74M	J.	(CV918), 12K7 ...	86
KTZ41	J.	CV3529 ...	86
KTZ63	J.	(CV1074), 617G	86
KTZ73M	J.	CV3530 ...	86
KU25	M.HH.	CV2993 ...	—
KU45	—	CV3875 ...	—
KZ	—	— ...	86
L2	D.H.	CV3531, PM2HL	86
L2/B	—	PM2HL ...	86
L2D	—	— ...	86
L2/DD	D.	— ...	86
L4	H.	— ...	86
L9	D.	(CV328) ...	—
L11	—	— ...	86
L12	—	— ...	86
L21	J.	CV3532, PM2HL	86
L21DD	D.	(CV1308), TDD2A	86
LSSDD	D.	CV3533 ...	86
L30	J.	CV3534 ...	86
L63	J.	(CV1067), 6J5G	86
L42MD	—	— ...	86
L77	J.	(CV133), EC90, 6C4	86
L210	RR.J.D.	(CV1021), PM2HL	86
L408	—	— ...	86
L410	J.	(CV1152) ...	86
L412	—	— ...	86
L413	FFF.	— ...	87
L414	—	— ...	87
L415	—	— ...	87
L416D	—	— ...	87
L427D	—	— ...	87
L486D	—	— ...	87
L419D	—	— ...	87
L495	—	— ...	87
L496D	FFF.	— ...	87
L497D	FFF.	— ...	87
L510D	FFF.	— ...	87
L600	—	CV3537 ...	—
L610	J.	CV3538 ...	—
L2318	FFF.	— ...	87
L4150D	FFF.	— ...	87
LA	—	— ...	87
LD210	U.	CV502 ...	87
LD410	—	— ...	87
LG6	—	— ...	87
LG6	—	— ...	87
LG14	—	— ...	87
LG210	U.	(CV1021) ...	—
LK430	FFF.	— ...	87
LK460	FFF.	— ...	87

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
LK4110	FFF.	— ...	87
LK4112	FFF.	— ...	87
LK4200	FFF.	— ...	87
LL2S	—	U. ...	87
LL2	U.	CV1732, PM2HL	87
LL4	U.	— ...	87
LL610	—	— ...	87
LN119	—	— ...	145
LN152	J.	ECL80 ...	87
LN309	J.	PCL83 ...	87
LN319	J.	30PLI ...	145
LN329	—	— ...	145
LP2	(Selected)J.	CV1304 ...	87
LP2	J.	CV548 ...	87
LP2	H.	(CV1023), PM202	87
LP4	H.J.	(CV1168), ACO44, PX4	87
LP25	H.	— ...	87
LP220	U.	(CV1166) ...	87
LS5	J.	(CV1637) ...	145
LS5A	J.	(CV1637) ...	145
LS5B	J.	(CV2846) ...	—
LS5X	J.	(CV1667) ...	—
LS6A	J.	(CV3541) ...	87
LS7	J.	(CV1660) ...	87
LS8	J.	(CV1656) ...	87
LS9A	J.	(CV1676) ...	87
LS9B	J.	(CV1676) ...	87
LS408A	R.	CV2536 ...	—
LS532	R.	CV3542 ...	—
LS650,	R.	(CV391) ...	—
LS731	R.	(CV273) ...	—
LS826	R.	— ...	87
LU4A	—	— ...	87
LZ319	J.	PCF80 ...	88
LZ329	J.	30CI ...	145
M2H	X.	(CV2886) ...	—
M6	X.	(CV2145) ...	—
M215H	C.	(CV177) ...	—
M500	G.	(CV353) ...	—
M501	G.	(CV76) ...	—
M501A	G.	CV3660 ...	—
M502	G.	(CV2166) ...	—
M502A	G.	CV2373 ...	—
M503	G.	CV1866 ...	—
M505	G.	CV1747 ...	—
M506A	G.	CV3982 ...	—
M507	G.	(CV69) ...	—
M508	G.	(CV370) ...	—
M509	G.	CV3976 ...	—
M510	G.	CV1827 ...	—
M511	—	4J78 ...	—
M512	G.	CV1828 ...	—
M513	G.	CV3528 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
M518A	G.	CV1914	...
		CV1916	...
		CV1997	...
		CV2744	...
		CV1898	...
M519	G.	CV1484	...
M521	G.	CV2376	...
M523	G.	CV2412	...
M525	G.	CV2365	...
M526	G.	CV3676	...
M528	G.	CV1497	...
M529	G.	CV2426	...
M536	—	4J43, 4J44	...
M537	G.	CV2281	...
M539	G.	CV2425	...
M541	—	5J26	...
M542	G.	CV3611	...
M543	—	7I82	...
M548	G.	CV5031	...
M549	G.	CV2424	...
M551	G.	CV3569	...
M8079	M.	(CV4025)	88
M8080	M.	CV4058	145
M8081	M.	(CV4031)	88
M8082	M.	CV4063	88
M8083	M.	(CV4014)	88
M8091	M.	CV4044	145
M8096	M.	CV4039	88
M8097	M.	CV4059	88
M8098	M.	CV4048	...
M8099	M.	CV4070	88
M8100	M.	(CV4010)	88
M8101	M.	—	88
M8121	—	—	88
M8122	—	—	88
M8123	—	—	88
M8125	—	—	88
M8135	—	—	88
M8136	M.	CV4003	145
M8137	M.	CV4004	88
M8138	M.	—	88
M8140	M.	CV4002	...
M8141	M.	CV4036	...
M8142	M.	CV4054	...
M8144	M.	CV4033	...
M8149	M.	CV4034	...
M8156	—	—	...
M8157	M.	CV483	88
M8161	M.	CV4015	88
M8162	M.	CV4024	88
M8167	CVM.	CV4067, 7001	...
M8179	M.	CV4076	...
M8180	M.	CV4050	...
M8190	M.	CV4066	...
M8195	M.	—	88
M8196	M.	CV4011	145

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
M8204	M.	CV4018	...
M8122	M.	CV4007	88
M8124	M.	CV4035	...
M8212	—	—	...
M8216	M.	CV3987	...
M8223	M.	CV4020, OA2WA	...
M8224	M.	CV4028, OB2WA	...
M8225	M.	CV4080	...
M8232	M.	CV5029, 6J4WA	...
M8234	M.	CV5082	...
M8237	M.	CV4049	...
M8245	M.	CV4019, 6005/6AQJ	145
MAG8	J.	CV2380	...
MAZ41	—	—	88
MB13-1	M.	CV5070, 5FP11	...
MCI	—	—	88
ME2	—	—	88
ME4/S	—	—	Appendix I
ME6/S	—	—	Appendix I
ME25	—	—	88
ME41	D.	CV3565	Appendix I
ME91	M.N.	—	Appendix I
ME920	M.N.	—	Appendix I
ME1001	M.	(CV273)	...
ME1005	M.	(CV354)	...
ME1100	M.	(CV1795)	...
ME1101	—	2J42	...
ME1101A	—	JP9-15	...
ME1101D	—	JP9-7D	...
ME1400	M.	(CV432)	...
ME1401	M.	(CV495), (CV2269)	...
ME1402	M.	CV2730	...
ME1403	M.	CV2348	...
ME1500	M.	(CV474)	...
ME1501	M.	(CV2253)	...
ME1502	M.	(CV1128)	...
ME1503	M.	(CV1787)	...
MF13-1	M.N.	CV3959, CV1868,	...
		5FP7A	...
MF22-22	M.	CV3999	...
MF22-75	M.	CV2372	...
MF31-55	M.N.	(CV429)	...
MF31-95	M.	CV2328	...
MH4	J.	(CV1037), 354V	88
MH4met	J.	(CV399)	88
MH40	—	—	88
MH41	J.	(CV1505)	88
MH206	—	—	88
MH1118	U.	—	88
MH4105	U.	—	88
MHD4	J.	CV3546, DDT4	88
MHL4	J.	(CV1038)	88
MHLD6	J.	(CV1101)	88
MHT4	—	(CV2955)	...
MKT4	J.	(CV1683), Pen4VA	88
ML4	J.	(CV1732)	88

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
ML6	J.	(CVI105) ...	88	MV6-5	N.	CVI976 ...	—
ML40	—	— ...	88	MVSG	C.	(CVI165) ...	89
ML5667	BB.	(CV2687) ...	—	MVSPen	C.	CV3571 ...	89
MM4V	M.	(CVI165) ...	89	MVSPen	C.	(CVI169) ...	89
MM13-ID	M.	CV5164 ...	—	MVSPenB	C.	CV3572 ...	89
MM20	—	— ...	89	MW6-2	M.	CVI737, 3NP4 ...	—
MO465	—	— ...	89	MW13-35	M.	5FP4A ...	—
MO495	—	— ...	89	MW13-75	M.	5FP4A ...	—
MP2	—	— ...	89	MW18-2	M.	CRM71 ...	—
MP4	—	— ...	89	MW22-3	M.	CRM92, CRM92A ...	—
MP31-55	—	CV2314 ...	—	MW22-22	M.	CV3999 ...	—
MP/Pen	C.	(CVI683), Pen4VA ...	89	MW31-16	M.	C12FM ...	—
MPT4	J.	(CVI174), Pen4VA, 7A2 ...	89	MW31-74	—	I2XP4A, C12FM ...	—
MPT4K	J.	CV3552 ...	89	MW43-69	M.	I7BQP4, C17/1A ...	—
MPT42	J.	CV2554 ...	—	MW50-23	2I	21CJP4 ...	—
MR1	—	— ...	89	MW53-80	—	C21/1A, 212K, 21CLP4 ...	—
MR4	J.	(CVI611) ...	89	MW100	C.	(CV25) ...	—
MR10	J.	(CV34) ...	—	MX1	E.	(CVI515) ...	—
MR75	D.	(CVI142) ...	—	MX2	E.	(CV418) ...	—
MR300	D.	CV3557 ...	—	MX40	J.	CV3576, VO4, 15A2 ...	89
MR300E	D.	CV3558 ...	—	MX52	B.	(CV306) ...	—
MS4	J.	(CVI164) ...	89	MX57	B.	(CV209) ...	—
MS4B	J.	CV3533, SP4 ...	89	MX103	M.	(CV2150) ...	—
MS4C	—	SP4 ...	89	MX105	M.	(CV2151) ...	—
MSG/HA	—	SP4 ...	89	MX107	M.	(CV2152) ...	—
MSG/LA	C.	(CVI677), SP4 ...	89	MX108	M.	(CV2153) ...	—
MS/Pen	C.	CV3561, SP4, 8AI ...	89	MX113	—	18513 ...	—
MS/Pen clear	C.	(CVI124) ...	89	MX114	—	18514 ...	—
MS/Pen (5 Pin)	C.	(CV244) ...	89	MY3-275	MI	CVI252, 212E, VI505 ...	—
MS/PenB	C.	(CVI125) ...	89	MZ05-20	M.	CV3573 ...	89
MSP4	J.	(CVI282), SP4 ...	—	MZ05-60	M.	(CV1206) ...	—
MSP4I	J.	CV3562 ...	89	MZI-70	M.	(CV25) ...	—
MS/Pen/T	C.	(CVI129) ...	89	MZI-75	M.	(CV444) ...	—
MT4	J.	(CVI610) ...	—	MZI-76	M.	CV3574 ...	—
MT9F	J.	CVI439 ...	—	MZI-100	M.	(CVI219), DAI00 ...	—
MT9L	J.	CVI440 ...	—	MZ2-200	M.	(CV200) ...	—
MT11SW	J.	CV3563 ...	—	NI4	J.	(CVI803), DL35 ...	89
MT12	J.	CV3564 ...	—	NI5	—	— ...	89
MT12A	J.	CVI441 ...	—	NI6	J.	(CV819), DL33 ...	89
MT13	J.	(CVI614) ...	—	NI7	J.	(CV820), DL92, 354 ...	90
MT14	J.	CVI442 ...	—	NI8	J.	(CV818), DL95, 3Q4 ...	90
MT16	J.	(CVI030) ...	—	NI9	J.	DL94, 3V4 ...	90
MT17	M.	(CV2957) ...	—	N25	J.	DL96 ...	145
MT57	—	PL5559 ...	—	N30	—	— ...	90
MT105	—	PL105 ...	—	N30	—	7D5 ...	90
MT5544	M.	(CV2210) ...	—	N31	—	— ...	90
MT5545	M.	(CV2215) ...	—	N34	—	— ...	145
MUI	—	CV3567 ...	89	N37	J.	— ...	90
MU2	D.	CVI459 ...	89	N40	—	7A2 ...	90
MUI2	J.	(CVI039), IW4-350, R2, R3, ...	89	N41	J.	(CVI181), PenA4, 7A3 ...	90
MUI2/14	J.	(CVI039), IW4-500 ...	89	N42	J.	— ...	90
MJ4250	C.	(CVI072) ...	89	N43	J.	(CVI657) ...	90
				N63	—	— ...	90
				N66	—	EL37 ...	90

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
N77	J.	(CVI36), EL91, 6PI7, 6AM5	90	NU114B	—	CV3505	...
N78	J.	CV3711	90	NU200	—	CV2988	...
NI08	J.	— ...	90	NU615	—	CV3506	...
NI18	J.	NI45	145	NVS4	—	— ...	91
NI19	J.	— ...	145	NW4	—	— ...	91
NI42	—	UL41, 45A5	90	O0	—	— ...	91
NI44	—	EL91, 6AM5	90	O0A	—	— ...	91
NI45	—	— ...	90	O1A	—	— ...	91
NI47	—	EL23, 6AG6	90	O1AA	—	— ...	91
NI48	—	7C5	90	O1B	—	— ...	91
NI50	—	EL41, 6CK5	90	O6F90	—	— ...	145
NI52	—	PL81, 21A6	90	O15/400	—	— ...	91
NI53	—	PL83, 15A6	90	O54V	—	— ...	145
NI54	—	PL82, 16A5	90	O84	—	— ...	91
NI55	—	— ...	90	O202	—	— ...	91
N308	J.	30P4	145	O202	LLL.	FC4	145
N309	J.	PL83	90	O406	LLL.	FC4	145
N329	J.	PL82, 16A5, 30P16	90	O1307	LLL.	FC13	145
N339	J.	PL81	90	OA2	—	CV1832	—
N349	—	— ...	90	OA2WA	—	CV4020	—
N369	J.	PCL82, 16A8, 30P12	145	OA3	—	(CV3798)	—
N359	—	— ...	90	OA4	—	CV752	—
N379	—	— ...	145	OA70	M.	IN87	—
N709	J.	EL84	90	OA73	M.	CV442, IN616	—
N727	J.	(CVI862), EL90, 6AQ5	90	OA79	M.	IN541	—
NDD40	—	— ...	90	2-OA79	M.	IN542	—
NE2	—	CV2976	—	OA81	M.	{ CV425 CV448 CV1353 }	IN476
NE16	—	CV651	—	OA85	M.	CV1354, IN478	—
NE17	D.	(CV359)	—	OA86	—	IN480	—
NE18	D.	(CV360)	—	OA87	—	IN490	—
NE19	D.	(CV263)	—	OA91	—	IN617	—
NEP51	—	— ...	90	OA95	—	IN618	—
NF2	—	— ...	90	OB2	—	CV3799, CV1833	—
NF3	—	— ...	90	OB2WA	—	CV4028	—
NG320	—	— ...	90	OB3	—	CV3799	—
NG3020	—	— ...	90	OBC3	—	— ...	91
NHP1	H.	(CV310)	—	OBF2	—	— ...	91
NHP51	—	— ...	90	OC2.5	N.	(CV1607)	—
NIX2	—	— ...	90	OC3	—	(CV686)	—
NL715	—	PL5557	—	OC16	—	2N115	—
NLP61	—	— ...	90	OC45	M.	CV5105	—
NLP62	—	— ...	90	OC70	—	2N279	—
NO22M	—	6861	90	OC71	—	2N280	—
NP90	—	CV3607	—	OC72	—	2N281	—
NSPI	JH.	(CV220)	—	2-OC72	—	2N282	—
NSP2	H.	(CV2269)	—	OC73	—	2N283	—
NS542	—	— ...	90	OC76	—	2N284	—
NSS43	—	— ...	90	OCH4	—	— ...	91
NSS183	—	— ...	91	OD3	—	CV216	—
NT2	RR.	(CV2213)	—	OF1	—	— ...	91
NT51	—	— ...	91	OF5	—	— ...	91
NU1	—	(CV2680)	—	OF9	—	— ...	91
NU20	—	(CV1474)	—	OM1	C.	(CV1402), CY31	91
NU40T2	AA.	(CV1076)	—	OM3	C.	(CV1054), EB34	91
NU75H	—	CV751	—				

Commercial		Equivalent (or nearest in brackets)	Page	Commercial		Equivalent (or nearest in brackets)	Page
Valve	Manufacturer			Valve	Manufacturer		
OM4	C.	(CV1055), EBC33	91	P415	J.	(CV1154)	92
OM5	C.	(CV1056), EF36	91	P420	—	—	92
OM5B	C.	EF37A ...	145	P421	LLL.	—	146
OM5C	C.	— ...	91	P422	—	—	92
OM6	C.	(CV1063) EF39	91	P425	D.	(CV1154)	92 & 146
OM7	—	EF39 ...	91	P430	—	—	92
OM9	C.	(CV1052), EL32	91	P434	—	—	92
OM10	C.	(CV1581)	91	P435	—	PM24M	92
OP41	—	PenB4	91	P435/IE	A.	(CV398)	—
OP42	—	PenA4	91	P440	—	—	92
OS6/300	—	— ...	91	P440N	LLL.	Pen4VA	92 & 146
OS18/600	—	— ...	91	P441N	—	Pen4VA	92
OSW2190	—	— ...	146	P445	—	—	—
OSW2192	—	— ...	146	P455	LLL.	—	92 & 146
OSW2600	—	— ...	146	P460	—	PX4	92
OSW2601	—	— ...	146	P469	—	—	92
OSW3105	—	— ...	—	P495	U.	(CV1181), PenA4	92
OSW3106	—	— ...	91	P496	—	—	92
OSW3107	—	— ...	91	P520	—	—	92
OSW3108	—	— ...	91	P535/IE	R.	C1111, 715B, CV398	—
OSW3109	—	— ...	91	P625A	—	—	—
OSW3111	—	— ...	91	P552/IE	R.	(CV427), 5D12, C1111	—
OSW3112	—	— ...	91	P610	HJ.	CV3622	—
OZ4	A.	CV517	1	P625	J.	(CV1208)	146
OZ4QA	—	CV692	1	P625A	—	—	146
P2	J.	(CV1246), PM202	91	P625B	—	—	92
P2-12	—	QGE04/20, 832A	—	P626	—	—	92
P2-40B	—	829B ...	—	P628	—	—	92
P4	—	— ...	91	P650	—	—	92
P6	—	1163 ...	—	P807	—	7293 ...	—
P6MO	—	— ...	91	P809	—	7294 ...	—
P12/250	U.	(CV1168), ACO44	91	P810	—	6198 ...	—
P15	—	1164 ...	—	P811	—	7295 ...	—
P15/250	U.	U. ...	91	P813	—	6332 ...	—
P15/250S	U.	— ...	92	P816	—	5820 ...	—
P24/450	—	— ...	92	P817	—	6474 ...	—
P25/400	—	— ...	92	P882	—	7389 ...	—
P25/500	—	— ...	92	P861	—	—	92
P26/500	—	— ...	92	P1320	—	—	92
P27/500	U.	(CV1040), PX25	92	P2018	—U.	—	92
P30/500	—	— ...	92	P2020N	LLL.	—	146
P41	D.	CVI408	92	P2060	—	—	92
P43M	—	— ...	92	P2460	—	—	92
P57	—	CVI466	—	P3580	—	—	92
P61	D.	(CV1066)	92	P4100	—	—	93
P215	D.	(CV1019)	92	PA1	A.	(CV1689)	93
	J.U.RR.			PA20	D.	(CV1732)	93
P220	D.RR.	(CV3620)	92	PA40	D.	CV3623	93
P220A	D.	(CV1023), PM202	92	PA5021	—	DCG4/1000G	—
P222	—	— ...	92	PABC80	N.H.ZZZ.	9AK8 ...	93
P225	—	— ...	92		FFF.M.		
P226	—	— ...	146	PABI	—	—	93
P240	—	PM202	92	PBI	—	—	93
P240A	—	— ...	92	PB495	—	—	93
P410	J.	CV3621	92	PBF2	—	—	93
P414	—	— ...	92	PCO3/3A	—	—	146

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
PCO3/3B	—	— ...	146
PC05-15	N.	— ...	93
PC86	—	— ...	146
PC88	—	— ...	146
PC92	—	— ...	146
PC95	—	— ...	146
PCC84	F.M.H.ZZZ.	7AN7, 30LI	93
	N.FFF.A.BBB.		
PCC85	H.ZZZ.	9AQ8 ...	93
	N.FFF.		
PCC88	PPP.M.BBB.	7DJ8 ...	93
	N.		
PCC89	M.N.	— ...	146
PCC189	—	— ...	146
PCF80	F.M.N.	30CI, 9A8	93
	FFF.BB.		
PCF82	D.H.ZZZ.A.	9U8 ...	93
PCF84	—	— ...	146
PCF86	—	— ...	146
PCL81	ZZZ. FFF.	— ...	93
PCL82	H.N.M.BB.	16A8 ...	93
PCL83	H.U.M.	CV5144	93
PCL84	N.A.	15DQ8	93
PCL85	—	— ...	146
PCL86	—	— ...	146
PD22A	M.	CV1163	—
PD220	D.	(CV1032)	93
PD220A	D.	(CV1696)	93
PDD2	—	— ...	93
PE04-10	N.	— ...	93
PE05-15	N.	— ...	93
PE06-40P	N.	— ...	93
PE1-80	N.	— ...	93
PE1-100	N.	— ...	93
PE7	D.	CV3624	—
PE8	D.	CV3625	—
Pen4DD	M.	CV519, DDPP4M	93
Pen4VA	M.	(CV1174), APP4A, 7A2	93
Pen4V	M.	— ...	93
Pen4VB	M.	PenA4, 7A3	93
Pen4VX	—	— ...	93
Pen13A	—	— ...	93
Pen13C	M.	(CV889)	93
Pen20	—	— ...	93
Pen24	D.	— ...	93
Pen25	D.	(CV65)	93
Pen26	M.	— ...	93
Pen36A	—	(CV1672)	94
Pen36C	M.	(CV1672), 7D6	94
Pen40DD	M.	DDPP39M	94
Pen44	D.	CV3630	94
Pen45	D.	CV1407	94
Pen45DD	D.	CV3631	94
Pen45AN	—	— ...	—
Pen46	D.	(CV1127)	94
Pen141	—	— ...	94

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
Pen200	D.	(CV1118), PM22A	124
Pen220	—	— ...	94
Pen220A	D.	(CV1051)	94
Pen230	—	— ...	94
Pen231	D.	CV3633, PM22D	94
Pen383	D.	CV1456, 7D6	94
Pen384	D.	— ...	94
Pen425	—	— ...	94
Pen428	M.	CV3634	94
Pen435DD	—	— ...	94
Pen453DD	—	— ...	—
Pen650	M.	— ...	94
Pen1340	D.	CV3635, 7D8	94
Pen1346	—	CV3636	—
Pen2020	—	— ...	94
Pen3520	D.	7D6	94
Pen3820	FD.	— ...	94
PenA4	M.	CV3638, APP4B, 7A3	94
PenB1	A.	(CV1118), PM22A	94
PenB4	M.	CV3624	94
PenDD61	—	— ...	94
PenDD1360	D.	— ...	94
PenDD2530	—	— ...	94
PenDD4020	D.	DDPP39M	94
PenDD4021	D.	— ...	94
PF9	—	— ...	94
PF83	—	— ...	146
PF86	—	— ...	146
PF462	—	— ...	94
PF472	—	— ...	94
PJ8	—	CV3640	—
PJ23	—	(CV3680)	—
PK150	E.	(CV150)	—
PL17	—	TQ2	—
PL21	—	TQ2, 2D21	—
PL33	U.M.	— ...	94
PL36	H.N.M.BB.	25E5	94
PL38	U.N.M.	— ...	94
PL81	F.H.ZZZ.	CV5077, 21A6	94
	FFF.M.A.N.		
PL81F	—	— ...	94
PL82	M.F.H.N.FFF.	16A5, 30P16, 15A6	94
PL83	H.ZZZ.	— ...	94
	N.FFF.M.		
PL84	ZZZ.N.	— ...	94
PLI36	—	— ...	146
PLI83	—	— ...	146
	PPP.		
PL522	N.	(CV2520)	—
PL820	H.M.	— ...	94
PLI265	—	Z300T	—
PL5632	—	C3J	—
PL5684	—	C3JA	—
PL6011	—	C3JA	—
PLL80	—	— ...	146
PM04	—	— ...	94

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
PM05	—	... — ...	95
PM07	—	— ...	95
PM1A	M.	CV2977, PM2HL	95
PM1HF	M.	(CV1673), PM2HL	95
PM1HL	M.	(CV3641)	95
PM1LF	M.	CV3642	95
PM2	M.	(CV1019)	95
PM2A	M.	(CV3643)	95
PM2B	M.	(CV1032)	95
PM2BA	M.	(CV1163)	95
PM2DL	M.	PM2HL	95
PM2DX	M.	(CV3645), PM2HL	95
PM2HL	M.	(CV1050)	95
PM3	M.	(CV1151)	95
PM4DX	M.	(CV1152)	95
PM5	—	— ... Appendix I	95
PM12	M.	(CV1018)	95
PM12A	M.	(CV1018)	95
PM12M	M.	(CV1041)	95
PM12V	M.	(CV319)	95
PM14	M.	(CV1159)	95
PM22	M.	CV3649	95
PM22A	M.	CV3647	95
PM22C	—	— ...	95
PM22D	M.	CV3578	95
PM24	M.	— ...	95
PM24A	M.	(CV1167)	95
PM24B	M.	— ...	95
PM24C	M.	— ...	95
PM24D	M.	(CV1237)	95
PM24DC	M.	— ...	95
PM24E	M.	CV3648	95
PM24M	M.	— ...	95
PM84	—	— ... Appendix I	95
PM202	M.	(CV185)	95
PM252	M.	— ...	95
PM254	M.	(CV1153)	95
P7256	M.	(CV1208)	95
PN2	—	— ...	95
PP2	U.	PM22A	95
PP2S	U.	— ...	95
PP3/250	D.	(CV1168), ACO44, PX4	95
PP4	U.	PM24M	95
PP4S	U.	— ...	95
PP5/400	D.	(CV1040), P27/500	96
PP6/400	—	PX25	96
PP6AS	—	EL2	96
PP6B	U.	— ...	96
PP6BG	—	EL33	96
PP6BS	—	— ...	96
PP6C	—	— ...	96
PP6E	—	— ...	96
PP13A	U.	— ...	96
PP24	U.	— ...	96
PP24S	U.	— ...	96

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
PP34	U.	— ...	96
PP34S	U.	— ...	96
PP35	U.	U. ...	96
PP35	U.	— ...	96
PP36	U.	CV1672	96
PP37	U.	— ...	96
PP60	U.	CV1075	96
PP215	—	— ...	96
PP215S	U.	— ...	96
PP220	—	PM202	96
PP222	U.	(CV1118)	96
PP225	U.	— ...	96
PP225S	—	U. ...	96
PP415	—	— ...	96
PP416	—	— ...	96
PP430	—	— ...	96
PP431	—	— ...	96
PP2018	U.	— ...	96
PP2101	U.	— ...	96
PP3521	D.	— ...	96
PP4100	—	— ...	96
PP4101	—	— ...	96
PP4118	U.	— ...	96
PT	—	— ...	96
PT2	J.	(CV1118), PM22A	96
PT2A	—	— ...	96
PT2K	—	— ...	96
PT4	J.H.	(CV1181), 7A3	96
PT5	J.	CV3652	96
PT5E	J.	CV3579	—
PT6	J.	CV3653	—
PT10	C.J.	— ...	96
PT11	J.	CV3654	—
PT12	—	— ...	97
PT15	J.	(CV1104)	97
PT16	—	— ...	97
PT25	J.	(CV1046)	97
PT25H	J.	(CV1046)	97
PT41	C.	PM24M	97
PT41B	—	— ...	97
PT225	—	— ...	97
PT240	—	— ...	97
PT250	—	— ...	97
PT425	J.	CV3656	97
PT425X	J.	(CV1167)	—
PTA	H.	(CV889), 7D8	97
PTAD	—	— ...	97
PTS	H.	— ...	97
PTSA	—	— ...	97
PTSD	H.	— ...	97
PTTI20P	—	— ...	146
PTTI22P	—	— ...	146
PT141	—	— ...	146
PTT202	—	— ...	146
PTT202S	—	— ...	146
PTT203	—	— ...	146

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
PTT208P	—	— ...	146
PTT212P	—	— ...	146
PTT213P	—	— ...	146
PTT214P	—	— ...	146
PTT216	—	— ...	147
PTT217	—	— ...	147
PTT241P	—	— ...	147
PTT243P	—	— ...	147
PTT244P	—	— ...	147
PTT301A	—	— ...	147
PTZ	H.	— ...	97
PV05-15	M.	CV3657	—
PV06-20	N.	— ...	97
PV1-35	M.	CV3658	97
PV4	—	DW4-350	97
PV25	U.	— ...	97
PV29	U.	— ...	97
PV30	U.	— ...	97
PV30A	—	— ...	97
PV30S	U.	— ...	97
PV75/1000	—	— ...	97
PV100/2000	—	— ...	97
PV200/600	—	— ...	97
PV400	—	— ...	97
PV430	—	— ...	97
PV475	—	— ...	97
PV480	—	— ...	97
PV495	U.	(CV1443), DW2	97
PV3018	U.	— ...	97
PV4100	—	— ...	97
PV4200	—	DW4-500	97
PV4201	—	— ...	97
PV4300	—	— ...	97
PVB6	U.	— ...	97
PX2	—	— ...	97
PX4	J.	(CV1168), ACO44	97
PX5	R.R.	(CV1040)	98
PX25	J.	(CV1040), P27/500	98
PX25A	—	— ...	98
PX41	RR.	(CV1168), ACO44	98
PX320	—	PM202	98
PX230SW	—	— ...	98
PX240	—	— ...	98
PX2100	—	— ...	98
PY3-600	M.	(CV1373)	—
PY31	U.M.	— ...	98
PY32	U.M.	— ...	98
PY71	—	— ...	98
PY80	F.N.FFF.M.	19X3	98
PY81	F.H.ZZZ.A.	17Z3	98
	N.FFF.M.NN.		
PY82	F.H.N.	19Y3, U192	98
	FFF.M.		
PY83	H.A.NN.	— ...	98
PY88	N.M.NN.	— ...	147
PZ	—	— ...	98

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
PZ03-3	—	— ...	98
PZ05-15	—	— ...	98
PZI-35	M.	(CV1240)	—
PZI-75	M.	(CV1211)	—
PZ30	H.U.	— ...	98
PZH	—	— ...	98
QA75/40	J.	CV1895	—
QA2400	J.	(CV4015)	98
QA2401	J.	CV133	98
QA2402	J.	CV136	98
QA2403	J.	(CV4014)	98
QA2404	J.	(CV4025)	98
QA2405	J.	CV415	98
QA2406	J.	CV4024	98
QA2407	J.	(CV4005)	98
QA2408	J.	— ...	98
QB2-250	—	813	—
QB3-300	—	Q160-1, 6155, C1108	—
QB3-3-750	—	Q400-3, 6156, C1112	—
QBS-1750	—	6079	—
QB65	—	— ...	98
QB309	—	— ...	98
QBL5/3500	—	ACS4, 6076, C1110	—
QBW5/ 3500	—	6075, CW1100	—
QD77	—	— ...	—
QE03-10	—	5763	—
QE0-104	N.	— ...	98
QE05-40	N.	— ...	98
QE05/40H	—	6159	—
QE06-50	N.	— ...	98
QF196	—	(CV1078)	—
QK26	Q.	CV1768	—
QK221	—	CV3902	—
QK283	—	CV3685	—
QK284	—	CV3686	—
QK338	—	3CV903	—
QK353	—	CV3737	—
QK533	—	NI034	—
QK610	—	NI010	—
QL77	—	— ...	98
QMG159	—	(CV2874)	—
QN77	—	— ...	98
QP21	J.	(CV1035)	98
QP22A	M.	— ...	98
QP22B	M.	(CV1035)	98
QP25	D.	CV556	98
QP230	D.	(CV1035), QP22B	99
QP240	D.	— ...	99
QPT2	H.	(CV1035)	—
QQC04-15	N.	— ...	99
QQE02/5	—	— ...	147
QQE03-12	N.	CV2798	147
QQE03-20	N.	— ...	99
QQE04-20	N.	— ...	99
QQE06-40	N.	(CV424)	99

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
QQV02-6	—	— ...	147	QY3-65	M.	CVI905 ...	—
QQV03-10	M.	(CV2798), 11E13	99	QY3-125	M.	(CV2130) ...	—
QQV03-20	M.	(CV2799) ...	147	QY4-250	M.	(CV2131) ...	—
QQV03-20	—	— ...	147	QY4-400	—	C1136 ...	—
QQV03-20A	M.	(CV2799), TT20	147	QY4-500A	—	QBL4/800 ...	—
QQV04-15	M.	CV788 ...	147	QY5-300W	—	CW1100 ...	—
QQV04-20	M.	(CV2663) ...	99	QY5-500	M.	CV3522 ...	—
QQV06-40	M.	(CV424) ...	99	QY5-3000A	M.	(CV1098), ACS4	—
QQV06-40A	M.	(CV2797) ...	147	QYS50-P40	M.	CV313 ...	—
QQV07-40	M.	(CV2666) ...	147	QZ77	—	— ...	99
QQV5-P10	M.	(CV2295) ...	—	R1	P.	(CV1443), APV4	99
QQZ04-15	M.	(CV3599) ...	99	R2	A.	IW4-350 ...	99
QS70/20	G.	CV1838 ...	99	R2/10	J.	(CV97) ...	—
QS75/20	G.J.	CV284 ...	—	R2/38	J.	(CV98) ...	—
QS75/40	J.	(CV284) ...	—	R3	A.	(CV1039), IW4-500	99
QS75/60	G.	6939, CV1895, VR75/30, OA3	—	R3/10	J.	(CV95) ...	—
QS83/3	G.	(CV434) ...	—	R3/16	J.	CV96 ...	—
QS92/10	G.	(CV449), 85A2 ...	—	R4	H.	CV1796, DW4-350, R2	99
QS95/10	G.	(CV188) ...	—	R4A	H.	(CV1074), DW4-500, R3	99
QS95/10	G.	(CV286) ...	—	R4B	—	— ...	99
QSI05/45	G.	(CV422) ...	—	R6A	—	I163 ...	—
QSI08/45	G.	(CV422) ...	—	R10	A.	(CV261), 2T/270K	99
QSI50/15	G.	(CV287) ...	—	R11	A.	(CV1111) ...	99
QSI50/30	G.	(CV216) ...	—	R12	A.	(CV426), EY5I ...	99 &
QSI50/40	G.	(CV216), VRZ150/30, OD3	—	R13A	—	— ...	Appendix II 99
QSI50/45	G.	(CV395) ...	—	R15A	—	I164 ...	—
QSI200	G.	(CV2225) ...	—	R14	A.	PZ30 ...	99
QSI202	J.	CV4052 ...	—	R16	—	IT2 ...	99
QSI203	G.	CV4053 ...	—	R17	A.	(CV2218) ...	99
QSI205	G.	(CV3798), VR5/30, QS75/40	—	R018	J.	— ...	99
QSI206	G.	(CV686), VR105/30	—	R18	A.	(CV2235) ...	99
QSI207	G.	(CV1832), OA2	—	R19	A.	IX2B ...	99
QSI208	G.	(CV1833), OB2 ...	—	R41	H.	DW4-500 ...	99
QSI209	J.	CV449 ...	—	R42	H.	IW4-350 ...	99
QSI210	J.	CV4020 ...	—	R43	H.	— ...	99
QSI211	J.	CV4028 ...	—	R52	H.	(CV1863), 5Z4G	99
QSI212	J.	CV4048 ...	—	R80	—	— ...	99
QSI213	J.	CV4054 ...	—	R116	—	— ...	147
QV03-12	M.	(CV2129), 5763 ...	99	R120	—	— ...	147
QV04-7	M.	(CV309) ...	99	R122N	—	— ...	147
QV04-12	—	— ...	99	R123	—	— ...	147
QV04-15	—	— ...	147	R125N	—	— ...	147
QV04-20	—	— ...	99	R125C	—	— ...	147
QV04-7R	M.	CV483 ...	99	R126N	—	— ...	147
QV05-25	M.	(CV124), 807 ...	99	R128	—	— ...	147
QV06-20	M.	(CV3523) ...	99	R134	—	— ...	147
QV20-P18	M.	CV2752 ...	—	R142	—	— ...	147
QVI-150A	M.	(CV2519), 4X150A	—	R143	—	— ...	147
QVI-150	M.	(CV2519) ...	—	R144	—	— ...	147
QW77	—	— ...	99	R145	—	— ...	147
QY2-100	M.	(CV26), C143, 813	—	R147	—	— ...	147
				R148	—	— ...	147
				R150	—	— ...	147
				R236	—	— ...	99

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
R243	—	EC55, 5861 ...	—
R265	—	— ...	147
R271	—	— ...	147
R290	—	K81A ...	147
R612G	—	CV597, 2X2A ...	—
R4410	P.	CV521 ...	—
R5559	J.	— ...	147
R6010	E.	(CV2353) ...	—
R6015	E.	(CV2354) ...	—
RA	—	— ...	99
RA1	—	— ...	99
RB/350/80	—	— ...	99
RB500/120	—	— ...	99
RB650/250	—	— ...	100
RC5B	—	— ...	147
RC5C	—	— ...	147
RE034	PPP.	— ...	100
RE052	—	— ...	147
RE054	—	— ...	147
RE062	—	— ...	147
RE074	PPP.	— ...	100
RE074D	—	— ...	148
RE074N	PPP.	— ...	100
RE076	—	— ...	148
RE084	PPP.	— ...	100
RE114	PPP.	— ...	100
RE122	—	— ...	148
RE124	—	— ...	148
RE134	PPP.	— ...	100
RE144	PPP.	— ...	100
RE304	PPP.	— ...	100
RE402B	—	— ...	148
RE404	PPP.	— ...	100
RE604	PPP.	— ...	100
RE614	PPP.	LK4110 ...	—
REN704	PPP.	— ...	100
REN904	PPP.	— ...	100
REN914	PPP.	— ...	100
REN924	PPP.	— ...	100
REN1004	PPP.	— ...	100
REN1104	—	— ...	148
REN1814	PPP.	— ...	100
REN1817D	PPP.	— ...	100
REN1821	PPP.	— ...	100
REN1822	—	— ...	148
REN1826	PPP.	— ...	100
REN01204	PPP.	— ...	100
RENSI214	PPP.	— ...	100
RENSI224	—	— ...	148
RENSI234	—	— ...	148
RENSI264	PPP.	— ...	100
RENSI264	—	— ...	—
BI	PPP.	— ...	100
RENSI274	PPP.	— ...	100
RENSI284	PPP.	— ...	100
RENSI294	PPP.	— ...	100

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
RENSI37	—	— ...	100
4D	PPP.	— ...	148
RENSI384	—	— ...	100
RENSI818	PPP.	— ...	100
RENSI819	PPP.	— ...	100
RENSI820	PPP.	— ...	100
RENSI823	—	— ...	—
D	PPP.	— ...	100
RENSI824	PPP.	X2818 ...	—
RENSI834	PPP.	X2918 ...	—
RENSI884	PPP.	— ...	100
RENSI894	PPP.	— ...	100
RES094	PPP.	— ...	100
RES105	—	— ...	148
RES164	PPP.	— ...	100
RES174D	PPP.	— ...	100
RES174D	PPP.	— ...	100
RES212	—	— ...	148
RES364	PPP.	— ...	100
RES374	PPP.	— ...	100
RES664D	—	— ...	148
RES964	—	— ...	100
RFP8/14	—	— ...	100
RG1-204A	M.	{ (CV1072) (CV1626)	—
RG1-240A	M.	ESU101 ...	—
RG1-125	M.	(CV1263) ...	—
RG1-240	M.	(CV1626), GU50	—
RG1-250	M.	CV3667, DCG1-250	—
RG3-250	M.	(CV1625), DQ2A,	—
		ESQ866	—
RG3-250A	M.	(CV32), 866A, GUI2,	—
		DQ2	—
RG3-1250	M.	(CV1629), DCG4/5000	—
RG3-1250A	M.	(CV5) ...	—
RG4-1000	M.	CV3670 ...	—
RG4-1250	M.	CV5, GU20/2I ...	—
RG5-500	M.	(CV1349) ...	—
RG5-12GC	—	6786, DGG7/100B	—
RG250-1000 U.	—	— ...	100
RG250/3000	—	— ...	100
RG1000/	—	— ...	—
3000	—	DCG5/5000GB, DQ4	—
RFG5	PPP.	— ...	100
RGN354	PPP.	— ...	101
RGN504	PPP.	— ...	101
RGN504	PPP.	— ...	101
RGN564	PPP.	— ...	101
RGN1054	PPP.	— ...	101
RGN1064	PPP.	— ...	101
RGN1074	PPP.	— ...	101
RGN1404	PPP.	— ...	101
RGN1304	—	— ...	148
RGN1503	PPP.	— ...	101
RGN2004	PPP.	— ...	101
RGN2504	PPP.	— ...	101

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
RGN4004	PPP.	G4004 ...	148	RR3-1250	M.	(CV2518), 4B32, GXU2	—
RHK6332	—	732A/B ...	—	RR3-1250A	M.	CV2399, 2G/473C, GXU3	—
RH	—	— ...	101	RR3-1250B	—	GXU4 ...	—
RK10	—	— ...	101	RRAF	—	— ...	101
RK15	—	— ...	101	RRBF	—	— ...	101
RK16	—	— ...	101	RSAF	—	— ...	101
RK18	—	T50-I ...	—	RS	—	— ...	101
RK19	—	— ...	101	RS566	—	3Q/310E ...	—
RK20	—	4052A ...	—	RS613	—	5866, TB2.5/300...	—
RK20A	Q.	CV704 ...	—	RS630	—	5867, TB3/750 ...	—
RK21	—	— ...	101	RS63I	—	5868, TB4/1250 ...	—
RK24	—	— ...	101	RS685	—	6155, QB3/300 ...	—
RK28	Q.	(CV3672), 4069A	—	RS686	—	6156, QB3-5/750	—
RK28A	Q.	CV3673, 803 ...	—	RS687	—	6079, QB5/1750	—
RK30	Q.	CV2657 ...	—	RS1002	—	QB4/1100 ...	—
RK31	Q.	CV3674 ...	—	RS1007	—	6155, QB3/300 ...	—
RK33	Q.	CV875 ...	—	RS103LI	—	TBL12/50 ...	101
RK34	Q.	(CV18) ...	—	RS1009	—	— ...	—
RK34	Q.	(CV18), 4074A ...	—	RS1013W	—	TBW12/50 ...	—
RK38	Q.	(CV2591) ...	—	RS1061	—	5868, TB4/1250 ...	—
RK39	—	— ...	101	RS1019	—	— ...	101
RK44	Q.	CV637 ...	—	RSQ15/5	—	TQ6 ...	—
RK47	Q.	CV3677 ...	—	RT1-2	—	— ...	101
RK48	—	813, PI20-I ...	—	RT2	—	— ...	101
RK51	—	T50-I ...	—	RT3	—	— ...	101
RK48A	Q.	CV690 ...	—	RTR4141	—	— ...	148
RK49	Q.	CV3679, 807 ...	—	RTR4142	—	— ...	148
RK57	Q.	CV625, 805, TI00-I	—	RTR434I	—	— ...	101
RK60	Q.	CV3680 ...	101	RTR4342	—	— ...	101
RK62	Q.	CV368I ...	—	RV120/250	U.	(CV1064) ...	101
RK63	Q.	CV2589 ...	—	RV120/350	U.	DW4-350 ...	102
RK6112	E.	(CV2116) ...	—	RV120/350S	U.	— ...	102
RKR47	—	CV3683 ...	—	RV120/500	U.	DW4-500 ...	102
RKR72	Q.	(CV709) ...	—	RV120/500S	U.	— ...	102
RKR73	Q.	CV2543 ...	—	RV200/600	U.	U18/20 ...	102
RL7	M.	(CV1136), EF54	101	RV210	—	— ...	102
RL15A	—	— ...	148	RX3-120	M.	(CV1261) ...	—
RL16	M.	(CV1137), EC52	101	RX2I	—	— ...	102
RL17	—	PL5557 ...	—	RX120A	—	1164 ...	—
RL18	M.	(CV1197), EC53	101	RX125	—	— ...	102
RL21	—	RL2D2I ...	—	RX233	Q.	CV3688 ...	—
RL37	M.	(CV66), EC54 ...	101	RX233A	Q.	CV793 ...	—
RL57	—	PL5559 ...	—	RX2235	Q.	CV709 ...	—
RL1267	—	PL1267, Z300T ...	—	RY12	—	8020 ...	—
RO337	—	— ...	101	RZ	H.	URIC, 1D5 ...	102
RO423	—	— ...	101	RZ1-150	M.	CV3690 ...	—
RO431	—	— ...	101	RZ1-250	M.	(CV2853) ...	—
RO443	—	— ...	101	S01	—	— ...	102
RO446	—	— ...	101	S02	—	— ...	102
RO452	—	— ...	101	SI-5/80DV	—	PL5552A ...	—
RO457	—	— ...	101	S2	H.	(CV1018) ...	102
RO48I	—	— ...	101	S2A	A.	(CV984) ...	—
RO534	—	— ...	101	S3A	A.	CV374 ...	—
RO77I	—	— ...	101	S4V	M.	SP4, AS4120 ...	102
RR3-250	M.	(CV1835), 3B28, GXUI, ESUI03	—	S4VA	M.	— ...	102

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
S4VB	M.	(CV1677)	102
S6F12	D.	CV4041	148
S6F17	D.	CV4040	148
S6F33	D.	CV4064	—
SI1A	KKK.	DW2 ...	102
SI1D	KKK.	DW4-350, R2	102
SI2	—	— ...	102
SI3A	C.	CV3694	—
SI3A	C.	CV3694	—
SI1E2	D.	CV4060	—
SI1E12	—	— ...	—
SI5/5D	—	TQ6 ...	—
S21	—	— ...	102
S22	—	— ...	102
S23	J.	CV3691	102
S23(met.)	—	CV3692	102
S24	J.	(CV1018)	102
S25A	A.	(CV16)	—
S26A	A.	(CV53)	—
S27A	A.	(CV82)	—
S28A	A.	(CV88)	—
S30C	KKK.	ACO44	102
S30D	KKK.	— ...	102
S30A	A.	(CV127)	—
SI30	C.J.	(CV1110)	—
SI30P	C.	(CV45)	—
S207	—	— ...	102
S208	—	— ...	102
S209	—	— ...	102
S210	—	— ...	102
S213	—	PM12M	102
S215	J.	CV3695	102
S215A	D.	CV3696	102
S215B	D.	(CV1018)	102
S215VM	D.	(CV1028), PM12M	102
S217	—	— ...	102 & 129
S218	—	SP2 ...	102
S220	—	— ...	102
S310A	—	— ...	102
S311A	—	— ...	102
S328A	—	— ...	102
S429A	—	— ...	102
S329L	—	— ...	102
S406/7	—	— ...	102
S408	—	— ...	102
S410	J.	(CV1159)	102
S410N	—	— ...	148
S412N	—	— ...	148
S415N	—	— ...	103
S420	—	VP4B ...	103
S423	—	— ...	148
S424	—	— ...	148
S430N	—	— ...	103
S431N	—	— ...	103
S432N	—	— ...	103
S434N	—	— ...	148

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
S435N	—	SP4 ...	103 & 148
S440	—	— ...	103
S493	—	— ...	103
S495	—	— ...	103
S610	J.	CV3698	—
S617	—	— ...	103
S620	—	— ...	103
S625	J.	CV1317	—
S629	—	— ...	103
S856	—	OA2 ...	—
S860	—	OB2 ...	—
SI323	—	— ...	103
SI324	—	— ...	103
SI327	—	— ...	103
SI328	—	SP13 ...	103
S2010N	—	— ...	148
S2012N	LLL.	— ...	148
S2018	U.	— ...	103
S2030N	—	— ...	148
S2035N	—	— ...	103
S2043	—	— ...	103
S4020A	—	— ...	103
S4020B	—	— ...	103
S4021A	—	— ...	103
S4021B	—	— ...	103
S4022AR	—	— ...	103
S4022B	—	— ...	103
S4045A	—	— ...	103
SIM2	J.	CV2134	—
SIM5	J.	CV2155	—
SAL39	—	CV3876	—
SCI/350	J.	CV2456	—
SCI/400	J.	CV2457	—
SCI/600	J.	CV2458	—
SCI/800	J.	CV2549	—
SCI/1000	J.	CV2460	—
SCI/1200	J.	CV2461	—
SCI/1400	J.	CV2462	—
SC5	—	PL5552A	—
SD	—	— ...	103
SD2	—	PM2HL	103
SD6	C.	CV1989	103
SD61	C.	EA50 ...	103
SG215	D.R.R.	CV3702	103
SD917A	—	— ...	103
SDR	—	PL5555	—
SDS	—	PL5553B	—
SE211	—	— ...	103
SE211C	U.	PM12M	103
SE2018	—	— ...	103
SE2118	—	— ...	103
SG2	—	— ...	103
SG215A	—	PM12M	103
SG215VM	—	— ...	103
SG220SV	—	— ...	103
SG220	RR.	(CV1018)	103

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
SG250	M.	(CV1031)	—
SGA1	—	— ...	103
SIM2	J.	CV2154	—
SIM5	J.	CV2155	—
SM95	C.	(CV286)	—
SM150	C.	(CV287)	—
SN947D	—	(CV471)	—
SN954	—	(CV473)	103
SN956B	—	(CV2251)	148
SN1039A	—	— ...	104
SP2	M.	(CV1320)	104
SP2B	U.	—	104
SP2B(S)	U.	— ...	104
SP2D	U.	— ...	104
SP2V	—	— ...	104
SP4	M.U.	(CV1324)	104
SP4A	—	— ...	104
SP4B	M.U.	CV3703	104
SP4C	M.	— ...	104
SP4S	U.	— ...	104
SP6	C.	(CV136), EF91, 8D3, 6AM6	104
SP6S	—	— ...	104
SPI3	U.M.	— ...	104
SPI3B	U.	— ...	104
SPI3C	M.	CV3704, 8D3	104
SPI3S	U.	— ...	104
SP20	—	— ...	104
SP22	D.	— ...	104
SP35	—	— ...	104
SP40 Pen	C.	(CV1104)	—
SP41	D.	{ (CV1335) ... (CV1547) ... (CV1699) ... (CV1700) ...	104 104 104 104
SP42	D.	(CV1336)	104
SP61	D.	(CV1065)	104
SP62	—	— ...	104
SP65	—	— ...	104
SPI41	—	— ...	104
SPI81	D.	— ...	104
SP210	D.	(CV1332), SP2	104
SP215	D.	(CV1320)	104
SP220	U.	PM202	104
SP514	—	— ...	148
SPI320	D.	SPI3C	104
SP2220	D.	— ...	104
SPTA	H.	— ...	104
SPTS	—	— ...	104
SPT2	H.	(CV1049)	104
SPT4A	H.	(CV1282)	104
SR2	—	— ...	104
SR4	—	— ...	104
SRS360	TB3/750	— ...	—
SRS4451	—	— ...	104
SRS4452	—	QQE03/20	104

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
SS22AF	A.	(CV39)	—
SS210	U.	— ...	104
SS210C	—	— ...	104
SS210DDT	—	— ...	105
SS210D	—	— ...	105
SS210HF	—	— ...	105
SS210HL	—	— ...	105
SS220PA	—	— ...	105
SS220P	—	— ...	105
SS220SP	—	— ...	105
SS240SP	—	— ...	105
SS1971	R.	(CV1604)	—
SS2018	U.	— ...	105
ST11	J.	{ (CV188) ... (CV107) ...	— —
ST90K	—	Z900T, 5823	—
ST507	—	— ...	148
STE1000/ 2-5/15	—	PL5559	—
STE1300/ 01/5	—	PL2D21	—
STE2500/ 6/40	—	PL105	—
STE15000/ 15/45	—	DCG7/100	—
STR108/30	—	OB2 ...	—
STR150/30	—	OA2 ...	—
STV70/20	G.	(CV284)	—
STV70/60	G.	CV1895	—
STV85/10	—	85A2, OG3	—
STV108/30	—	OB2 ...	—
STV150/30	—	OA2 ...	—
STV150/200	J.	CV3709	—
STV280/40	J.,	(CV1068)	—
STV280/80	J.	(CV1069)	—
STV280/ 80A	J.	CV3712	—
SU25	C.F.	— ...	105
SU41	C.	(CV1113)	—
SU42	—	— ...	148
SU44	C.	(CV261), 2T/270K	—
SU45	C.	(CV371)	105
SU61	C.	EY51, 6X2, R12, R12A ...	105 & Appendix II
SU150	C.	(CV128)	—
SU2130	—	— ...	105
SU2150	C.	— ...	105 & Appendix II
SU2150A	C.	(CV1290)	105 & Appendix II
SU3130	—	— ...	105
SU4150A	C.	(CV1134)	—
SV-0A2	A.	(CV1832)	—
SV-0B2	A.	CV1833	—
SV-2D21	A.	CV797	—
SV-3B28	A.	CV1835	—

Commercial		Equivalent (or nearest in brackets)	Page		Commercial		Equivalent (or nearest in brackets)	Page	
Valve	Manufacturer				Valve	Manufacturer			
5V-3D21A	A.	CV2659	...	—	T2000	—	(CV1121)	...	—
5V-3D22	A.	CV2851	...	—	TB2-5/300	—	5866	...	—
5V-4B32	A.	CV2518	...	—	TB3/750	—	5867, T3501-I	...	—
5V-4X150D	A.	CV3991	...	—	TB4/1250	—	5868	...	—
5V-57	A.	CV5027	...	—	TB5/2500	—	7092	...	—
5V-705A	A.	CV3587	...	—	TB13	—	—	...	105
SV-813	A.	CV26	...	—	TB032	—	—	...	105
5V-828	A.	CV631	...	—	TB052	—	—	...	105
5V-5545	A.	CV2215	...	—	TB062	—	—	...	105
5V-75/30	A.	CV3798	...	—	TB102	—	—	...	105
5V-VR150/ 30	A.	CV216	...	—	TB122	—	—	...	105
5V2C39A	A.	(CV2516)	...	—	TB172	—	—	...	105
5V4X/150A	A.	(CV2519)	...	—	TB282	—	—	...	105
5V280/40	—	CV(1068)	...	—	TB402	—	—	...	105
5V280/80	—	(CV1069)	...	—	TB452	—	—	...	105
5V813	A.	(CV26)	...	—	TB552	—	—	...	105
5V828	A.	(CV631)	...	—	TB622	—	—	...	105
5W1	—	—	...	105	TB9920	—	—	...	105
SW5	C.	CV3715	...	—	TBC14	—	—	...	105
SW7	C.	CV3719	...	—	TBC113	—	—	...	105
SW7	M.	M.	...	—	TBL2/300	—	7004	...	—
SW7	M.	(CV1069)	...	—	TBL6/6000	—	5924	...	—
SW35 Pen	C.	(CV1370)	...	—	TBL7/8000	—	6961	...	—
5W10H	C.	(CV1076)	...	—	TBL12/25	—	6618	...	—
5WG2	—	—	...	105	TBL12/100	—	6078	...	—
5W75 Pen	C.	(CV1371)	...	—	TBW6/600	—	5923	...	—
5X541	J.	CV2384, CV4073	...	—	TBW7/800	—	6960	...	—
5X542	J.	CV2413, CV4074	...	—	TBW12/25	—	6617	...	—
5X643	J.	CV4077	...	—	TBW12/100	—	6077	...	—
55X644	J.	CV4078	...	—	TC05-25	N.	—	...	105
T2	—	—	...	148	TC432	—	—	...	105
T2G9/10E	R.	CV357	...	—	TD2	—	—	...	148
T2M05	—	—	...	105	TD1-100A	M.	CV2516	...	—
T4D	M.	CV3721	...	105	TD3-12	M.	CV2932	...	—
T6D	M.	EA50	...	105	TD2-5-12	M.	CV688	...	—
T13U	—	—	...	105	TD4-10	M.	CV2201	...	—
T20	—	CV3772	...	—	TD6	—	EA50, 2B35	...	—
T20G	—	(CV1047)	...	—	TDD1C	—	—	...	106
T21	D.	CV3679	...	—	TDD2	M.	—	...	106
T40	—	T50-I	...	—	TDD2A	M.	CV3726	...	106
T55	—	T50-I	...	—	TDD4	M.	CV3727, DDT4, 11D3	...	106
T41	D.	CV3723	...	105	TDD13	—	—	...	148
T134	—	—	...	105	TDD13C	M.	(CV1419), DDT13	...	106
T136	—	—	...	105	TDD25	—	—	...	106
T151	—	—	...	105	TD03-5	M.	(CV345), DET23	...	—
T200	—	CV3727	...	—	TD03-10	M.	(CV273), DET22	...	—
T204	—	—	...	105	TD03-10F	M.	CV2204	...	—
T223	—	—	...	148	TD04-20	M.	CV397, DET24	...	—
T250	J.	(CV1030)	...	—	TD05-12	M.	CV2933	...	148
T300/I	—	TB3/1000	...	—	TD044	—	—	...	106
T435	—	—	...	105	TE2	—	—	...	106
T460	—	—	...	148	TE3	—	—	...	106
T635	—	—	...	105	TE5	—	—	...	106
T814	—	CV2658	...	—	TE094	—	—	...	106
T1335	—	—	...	105	TE104	—	—	...	106
					TE244	—	—	...	106

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
TE384	—	— ...	106
TE424	—	— ...	106
TE434	—	— ...	106
TE464	—	— ...	106
TE474	—	— ...	106
TE534	—	— ...	106
TE564	—	— ...	106
TE634	—	— ...	106
TE994	—	— ...	106
TF64	—	— ...	106
TF104	—	— ...	106
TG30	—	3C45 ...	—
TG57	—	PL5557 ...	—
TG200B	—	6268, 4C35 ...	—
TG 1000	—	6278, 5C22 ...	—
TG3000	—	5949 ...	—
TGRB	—	872A ...	—
TH1	—	— ...	106
TH2	M.	CV1410 ...	106
TH4	M.	— ...	106
TH4A	M.U.	(CV1194) ...	106
TH4B	M.U.	(CV1194) ...	106
TH13C	M.	— ...	106
TH21C	M.	— ...	106
TH22C	M.	TH29 ...	106
TH29	U.	— ...	106
TH30	U.	— ...	107
TH30C	M.	— ...	107
TH31	—	— ...	107
TH41	D.	CV1411 ...	107
TH62	M.	— ...	107
TH233	D.	— ...	107
TH401	—	— ...	148
TH813	—	QB2-250 ...	—
TH1249	—	2149 ...	—
TH1250	—	2150 ...	—
TH1450	—	4150 ...	—
TH1452	—	4152 ...	—
TH1478	—	4178 ...	—
TH1526	—	5126 ...	—
TH1725A	—	725 ...	—
TH2200	—	K345 Series ...	—
Series			
TH225	—	2K25 ...	—
TH2312	D.	TH29 ...	107
TH2320	D.	— ...	107
TH2620	—	— ...	149
TH5021B	—	DCG4/1000G ...	—
TH5021V	—	DCG4/1000ED ...	—
TH5031	—	872A ...	—
TH5031B	—	DCG5/5000GB ...	—
TH5040	—	869B ...	—
TH5221	—	3B28 ...	—
5221V/B	—	DCX4/1000 ...	—
TH6011	—	PL5577 ...	—
TH6031	—	PL5559 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
TH6120	—	PL105 ...	—
TH6220	—	PL5545 ...	—
TH6230	—	PL3C23 ...	—
TH6345	—	3C45 ...	—
TH6435	—	6268, 4C35 ...	—
TH6522	—	6276, 5C22, HT415 ...	—
TH6907	—	5949 ...	—
TH7020	—	PL5551A ...	—
TH7030	—	PL5552A ...	—
TH7040	—	PL5553B ...	—
TK406	PPP.	— ...	Appendix I
TL54	—	— ...	107
TM05	—	— ...	107
TM12	—	— ...	107
TMC15B	C.	CV3730 ...	—
TMC16B	C.	CV3731 ...	—
TMC20B	C.	CV3732 ...	—
TP4	—	— ...	107
TP22	D.	(CV1344) ...	107
TP23	D.	— ...	107
TP25	D.	(CV1345) ...	107
TP26	D.	CV3735 ...	107
TP230	—	— ...	107
TP443	—	— ...	107
TP1340	D.	— ...	107
TP2620	D.	— ...	107
TQ1/2	RRR.	3C23, ASG5023, ...	—
		TH6230, SE311, PL3C23 ...	—
TQ2	RRR.	PL17, TH6011, FGI7, ...	—
		ASG5017 ...	—
TQ2-3	—	5544, ASG5044A, ...	—
		CV2210, XRI-3200, ...	—
		BT91 ...	—
TQ2/6	RRR.	5545, C6J, TH6020, ...	—
		CV2215, XRI-6400 ...	—
TRP4	J.	CV2378 ...	—
TRP5	J.	CV2379 ...	—
TRW1	J.	CV2351 ...	—
TRW2	J.	CV2303 ...	—
TRW5	J.	CV2297 ...	—
TRW7	J.	CV3539 ...	—
TS49	—	— ...	107
TS51	—	— ...	107
TS52	—	— ...	107
TS53	—	— ...	107
TS54	—	— ...	107
TS70	—	CV798 ...	—
TSE4	M.	— ...	107
TSP4	M.	CV560 ...	107
TSW05	C.	(CV1288) ...	—
TSW50	—	DET12 ...	—
TSW50A	C.	(CV1235) ...	—
TSY4-500	M.	CV1889 ...	—
TT2	—	— ...	149
TT4	M.	(CV1179) ...	107

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
TT4A	M.	— ...	108
TT10	—	(CV26)	—
TT11	J.	(CV1501)	108
TT12	J.	(CV524)	108
TT14	J.	— ...	108
TT15	J.	(CV415), 44A/160M	108
TT16	J.	(CV2963), CI 108	—
TT17	—	PL5557	—
TT18	J.	(CV2666)	—
TT19	J.	— ...	108
TT20	J.	CV2799	108
TT210	—	— ...	149
TTR31	H.	(CV221)	—
TTR31MC (9375)	H.	CV1748	—
TTR31MR (9100)	H.	CV3840	—
TTR31MR (9375)	H.	CV1923	—
TV03-10	M.	CV1573	108
TV03-10A	M.	CV1089	—
TV4	M.	CV1412	Appendix I
TV101	A3	ESU151	—
TV102	A3	CV1504, VU504	—
TV801	A3	4303CB, TY1-50	—
TWI	—	— ...	108
TW2	—	— ...	108
TX2/3	—	PL5544	—
TX2/6	—	PL5545	—
TX3-200	M.	CV3739	—
TX4	U.	(CV1194)	108
TX5-400	M.	CV3740	—
TX12-12	—	CAT6	—
TX41	—	TH4B ...	108
TXM100	—	PL2D21	—
TY1-50	M.	(CV1288)	—
TY2-125	M.	(CV1924)	—
TY2-125	M.	(CV1924)	—
TY3-250	M.	CV1350	—
TY4-350	M.	CV635	—
TY4-350	M.	CV536	—
TY4-500	M.	CV1351	—
TY5-500	—	TB4/1500	—
TY6-800	—	TB5/2500	—
TY6-500A	M.	CV3926	—
TY6-5000W	—	5923, TBW6/6000	—
TY7-6000A	—	TBL7/8000	—
TY7-6000W	—	TBW7/8000	—
TY12-25	—	TBW12/25	—
TY12-25A	—	TBW12/25	—
TY12-50A	—	6078, TBL12/100	—
TY12-50W	—	6077, TBW12/100	—
TY86F	M.	— ...	149
TY54-500	M.	CV1889	—
TZ03-20	M.	(CV1047)	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
TZ2-250	M.	(CV1618)	—
TZ2-300	M.	CV3741	—
TZ4C	—	DA41 ...	—
TZ20	—	CV3742	—
TZ40	—	(CV1076)	149
U4	J.	(CV1608)	—
UC4	—	— ...	108
U4E	—	— ...	108
U4F	—	— ...	108
U5	J.	CV3743	108
U6	J.	CV3744	—
U8	J.	— ...	108
U9	—	— ...	108
U10	J.	CV1443, RV120/350	108
U12	J.	(CV1064)	108
U14	J.	(CV1064), DW4-500	108
U15	J.	CV3747	108
U16	J.	(CV1290)	108
U17	J.	(CV1113)	108 & Appendix II
U18	J..	(CV1264)	108
U18/20	J.	(CV31), RV200/600	108
U19	J.	(CV187)	108 & Appendix II
U19/23	J.	(CV187)	108 & Appendix II
U20	J.	(CV31)	108
U21	D.	CV3751	108 & Appendix II
U22	D.	CV3750	108 & Appendix II
U22FH	—	— ...	108 & Appendix II
U23	J.	CV235	108 & Appendix II
U24	D.	CV1921	108 & Appendix II
U25	D.	— ...	108
U26	D.	— ...	108
U26	J.	— ...	108
U27	J.	(CV1111)	—
U29	—	— ...	108
U30	J.	CV3752	108
U31	J.	CV3753, 25Z4G	108
U33	—	— ...	109
U35	—	— ...	109
U37	J.	(CV2289)	109
U41	J.	(CV2115), IT2,	109 & R16 Appendix II
U43	J.	CV246, EY51,	109 & R12, R12A Appendix II
U45	J.	U25 ...	149
U47	J.	U26 ...	149
U49	J.	— ...	149
U50	—	(CV1268), 5Y3GT,	5Z4109
U51	—	— ...	109

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
U52	J.	(CV1071), 5U4G	109
U521T	—	— ...	109
U54	J.	53KU ...	109
U60	J.	CV4075 ...	—
U60/500	—	— ...	109
U65/550	—	— ...	109
U70	J.	6X5GT, EZ35 ...	109
U71	J.	— ...	109
U74	J.	35Z4GT ...	109
U76	J.	35Z4GT ...	109
U78	J.	(CV493), 6X4, EZ90	109
U81	—	— ...	109
U82	J.	CV3919, Z724, 7Y4	109
U84	—	— ...	109
U101	—	— ...	109
U107	J.	— ...	109
U118	J.	UI45 ...	149
U119	J.	UY85 ...	149
U120/500	—	— ...	109
U134	J.	— ...	109
U142	—	UY41, 31A3	109
U143	—	(CV2862), AZ31	109
U145	—	— ...	109
U147	—	6X5, EZ35 ...	109
U149	—	7Y4 ...	109
U150	—	EZ40, 6BT4 ...	109
U151	—	EY51, 6X2, R12	109
		R12A ...	Appendix II
U152	—	PY80, 19X3 ...	109
U153	—	PY81, 17Z3 ...	109
U154	—	PY82, 19Y3 ...	109
U191	—	— ...	109
U192	D.	PY82 ...	149
U193	—	— ...	149
U201	D.	CY31 ...	109
U251	D.	— ...	109
U281	D.	CY31 ...	109
U282	D.	— ...	109
U291	—	PY32 ...	149
U301	D.	CY31 ...	109
U309	D.	— ...	109
U319	D.	PY82, 19Y3 ...	109
U329	D.	— ...	109
U339	J.	— ...	149
U381	D.	— ...	149
U403	D.	— ...	109
U404	—	D. 31A3 ...	109
U415	—	— ...	110
U418	—	— ...	110
U560	—	— ...	110
U600	D.	CV3756 ...	—
U709	F.	— ...	110
U718	J.	UU9 ...	149
U801	D.	— ...	110
U2140P	—	— ...	110

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
U4020	D.	(CV1267,) V30, 1D5, URIC	110
UA55	—	— ...	149
UAA11	—	— ...	110
UAA91	MMM.	— ...	110
UAA171	—	— ...	110
UABC80	H.MMM.	DH109, 10LD12	110
	U.M.N.FFF.		
UAF21	—	— ...	110
UAF41	N.FFF.M.	— ...	110
UAF42	H.N.FFF.M.	12S7 ...	110
UB41	M.N.FFF.	— ...	110
UB91	—	— ...	110
UBC1	—	— ...	110
UBC41	H.N.FFF.	14L7, 10LD3	110
	M.A.		
UBC81	N.M.	10LD13 ...	110
UBF2	—	— ...	110
UBF11	N.MMM.	— ...	110
	FFF.		
UBF15	—	— ...	110
UBF80	H.MMM.	171DDP, 1768 ...	110
	M.U.N.FFF.		
UBF89	N.	10FD12 ...	110
UBF171	—	— ...	110
UBL1	N.FFF.	— ...	110
UBL3	FFF.	— ...	110
UBL21	M.N.FFF.	— ...	110
UBL71	—	— ...	110
UC92	N.MMM.	— ...	110
UC95	—	— ...	149
	FFF.		
UCC84	M.H.	— ...	110
UCC85	H.ZZZ.	B109, 10L14 ...	110
UCC88	—	— ...	149
UCC189	—	— ...	149
	N.FFF.M.		
UCF12	—	— ...	110
UCF80	M.H.	— ...	110
UCH4	N.FFF.	— ...	110
UCH5	FFF.	— ...	110
UCH11	N.MMM.	— ...	110
	FFF.		
UCH21	N.FFF.	— ...	110
	M.		
UCH41	N.FFF.	— ...	110
	M.		
UCH42	D.H.N.A.	14K7 ...	111
	FFF.M.		
UCH43	FFF.	— ...	111
UCH71	—	— ...	111
UCH80	—	— ...	149
UCH81	H.M.NN.	X119, 10C14 ...	111
	N.FFF.	19D8	
	MMM.		
UCH171	—	— ...	111

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
UCL11	N.ZZZ. FFF.	— ...	111
UCL81	—	— ...	111
UCL82	B.B.Y	— ...	111
UCL83	M.	— ...	111
UCL84	—	— ...	149
UD2	—	PM202 ...	111
UDI43	RR.	(CV2293) ...	—
UDI66C	RR.	(CV2257) ...	—
UDDL71	—	— ...	111
UDH	—	— ...	111
UDPI2	—	— ...	111
UDPI3	—	— ...	111
UDTI	—	— ...	111
UE1	—	— ...	111
UE2	—	— ...	111
UE13	—	— ...	111
UE100	—	— ...	111
UE301	—	CV621 ...	—
UE311	—	424A ...	—
UE905	—	CV625 ...	—
UE938	—	CV638 ...	—
UE945	—	(CV735) ...	—
UE966	—	DCG/1000G, 866A ...	—
UE966A	—	DCG4/1000G, 866A ...	—
UE972A	—	DCG5/5000GB ...	—
UE1967	—	PL5557 ...	—
UE972	—	CV642, 872A ...	—
UEL11	—	— ...	111
UF5	FFF.	— ...	111
UF6	FFF.	— ...	111
UF8	—	— ...	111
UF9	—	— ...	111
UF10	—	— ...	111
UF11	N.FFF.	— ...	111
UF14	—	— ...	111
UF15	—	— ...	111
UF21	N.FFF.	— ...	111
UF41	A.H.N.FFF.M.N.	12AC5 ...	111
	N.FFF.M. UF42	... ...	111
UF43	FFF.	— ...	111
UF80	ZZZ.N.FFF.	— ...	111
UF81	—	— ...	149
	M.H.	— ...	—
UF85	ZZZ.H.	— ...	111
	U.M.N.FFF.	— ...	—
UF86	M.	— ...	149
UF89	H.MMM.	— ...	111
	M.N.FFF.	— ...	—
	U.	— ...	—
UF172	—	— ...	111
UF174	—	— ...	112
UF175	—	— ...	112
UH3	—	— ...	112
UH4	—	— ...	112
UHP51	—	— ...	112

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
UHP52	—	— ...	112
UL1	—	— ...	112
UL2	FFF.	— ...	112
UL11	—	— ...	112
UL12	N.	— ...	112
UL21	—	— ...	112
UL22	—	— ...	112
UL41	M.A.	CV1977, 45A5 ...	112
UL43	—	— ...	112
UL44	FFF.	— ...	112
	M.	— ...	—
UL46	M.	— ...	112
UL71	—	— ...	112
UL84	H.MMM.BB.	10D18, 45B5 ...	112
	U.N.M.	— ...	—
UL171	—	— ...	112
ULL80	—	— ...	149
ULP	—	— ...	112
ULP51	—	— ...	112
ULP61	—	— ...	112
UM4	M.	— ...	Appendix I
UM11	M.	— ...	Appendix I
UM34	M.	— ...	Appendix I
UM80	M.	Y119 ...	Appendix I
UM81	M.	— ...	Appendix I
UM84	—	— ...	Appendix I
UM85	—	10M2 ...	—
UP6	—	— ...	112
UPI3	—	— ...	149
UP35U	—	— ...	112
UPX	—	— ...	112
UP2	—	— ...	112
UPI3	—	— ...	112 & 149
UQ80	FFF.	— ...	112
UR1C	—	CV1267, V20, 1D5 ...	112
UR1	M.	CY1 ...	112
UR2	M.	— ...	112
UR3	M.	— ...	112
UR3C	M.	CV3758 ...	112
UT2	—	— ...	112
UTH4	—	— ...	112
UTH12	—	— ...	112
UU2	—	R2 ...	112
UU3	—	1W4-350, R2, R3 ...	112
UU4	D.	CV3759, 1W4-350, R3 ...	112
UU5	D.	(CV1039), 1W4-500 ...	112
UU6	D.	CV1413 ...	112
UU7	D.	CV3761 ...	112
UU8	D.	— ...	113
UU9	D.	CV1855, EZ40 ...	113
UU10	D.	RV200/600 ...	113
UU12	—	EZ81 ...	113
UU30/250	—	— ...	113
UU60/250	—	1W4-350, R2 ...	113
UU120/250	—	1W4-350 ...	113

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
UU120/350	D.QQ.	(CV1796), RV120/350, R2	113
UU120/500	QQ.	(CV1064), APV4, R3	113
UV203A	—	CV2986	...
UVG51	—	—	113
UX866	—	DCG4/1000GB	...
UX6653	—	CV3592	...
UY1	—	—	113
UY1N	N.M. FFF.	—	113
UY2	—	—	113
UY3	FFF.	—	113
UY4	FFF.	—	113
UY11	N. MMM.	—	113
UY21	N.FFF. M.	—	113
UY22	—	—	113
UY31	M.	—	113
UY41	D.H.N. FFF.A.	31A3	113
UY32	N.FFF.	—	113
UY82	N.	—	113
UY85	F.MMM.	U381, 38A3	113
UY89	— N.M.	—	149
UY91	—	—	113
UY92	N.	—	113
UY807	UUU.	807	Appendix II
VO133	—	—	149
V2M70	—	—	113
V20	U.	(CV764), URIC	113
V02S	U.	CY1	113
V20/7000	—	—	113
V21/7000	—	—	Appendix II
V22/7000	—	—	113
V25	—	—	113
V30/I	—	—	113
V40	—	8020	...
V41	—	—	113
V51	—	—	113
V54	—	K358	...
V61	—	—	113
V70D	—	T50-I	...
V99	Q.	—	113
V120	D.	CV3762	...
V123	D.	CV3763	...
V154	—	K353	...
V226	D.	CV3765	113
V203A/IK	R.	(CV234)	...
V203C/LD	R.	(CV230)	...
V230A/K	R.	CV299	...
V233A/IK	R.	(CV2190)	...
V235A/IK	R.	(CV2221)	...
V239/IK	R.	CV5048	...
V241C/IK	R.	CV5049	...

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
V240C/2K	R.	(CV2189)	...
V245	D.	(CV1367)	113
V246A/IK	R.	(CV228)	...
V248A	D.	(CV1366)	113
V257	D.	(CV1723)	...
V311	—	—	113
V312	D.	CV3766	113
V339	D.	CV3767	113
V453	D.	—	113
V503	D.	CV3768	113
V625	R.P.	(CV93)	...
V630	D.	(CV201)	...
V872	D.	(CV1116)	114
V877	D.	CV3769	...
V884	D.	(CV131)	114
V885	D.	(CV132)	...
V887	D.	(CV136)	...
V914	D.	(CV1170), 2D4A	114
V994A	D.	CV3797	...
V995	D.	CV3770	...
V960	—	CV54	114 & Appendix II
V970	D.	CV3772	...
V1010	D.	CV3773	...
V1020	D.	CV3774	...
V1021	D.	CV3775	...
V1023	D.	CV3776	...
V1029	D.	CV3777	...
V1040	D.	(CV987)	D.
V1042	D.	(CV275)	...
V1043	D.	(CV401)	...
V1047	D.	(CV961)	...
V1052	D.	(CV441)	...
V1063PI	D.	(CV400)	...
V1101	C.	(CV1361)	...
V1105	D.	CV3778	...
V1111	D.	(CV1127)	...
V1120	D.	(CV72)	114
V1120B	D.	(CV73)	114
V1133	D.	(CV276)	...
V1135B	D.	(CV345)	...
V1135C	D.	(CV277)	...
V1501	D.	CV3581	...
V1505	D.	(CV1252), 4212E	...
V1507A	D.	(CV1504)	...
V1901	D.	(CV1504)	...
V1904	—	(CV1072)	...
V1906	D.	(CV20)	114 & Appendix II
V1907	D.	(CV1111)	114 & Appendix II
V1913	D.	(CV1508)	Appendix II
V1920	D.	(CV121)	Appendix II
V1922	D.	(CV74)	...
V1924	D.	(CV100)	...
V1928	D.	(CV261), 2T/270K	114

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
V1939	D.	(CV371)	...
V2018	—	— ...	114
V2024	D.	(CV125)	...
V2030F	D.	(CV349)	...
V2046A	D.	(CV486)	...
V2053	D.	(CV403)	...
V2118	U.	— ...	114
V4200	—	— ...	114
VA16	XX.	(CV528)	...
VA35	XX.	(CV285)	...
VA50	XX.	(CV2132)	...
VA201B	—	K351 ...	...
VA220	K345	K345 Series	...
Series			
VBF11	—	— ...	114
VCI	FFF.	— ...	114
VCH11	—	— ...	114
VCL11	FFF.	— ...	114
VDSB	J.	— ...	114
VDS	J.	— ...	114
VEG5I	—	— ...	114
VEL11	—	— ...	114
VF01	B.	(CV80)	...
VF03	B.	(CV81)	...
VFT6	—	CV2976	...
VF3	—	— ...	114
VF7	FFF.	— ...	114
VF14	—	— ...	114
VFT4	—	— ...	Appendix I
VFT6	—	CV2747	Appendix I
VG1	—	CV2976	...
VG406	—	— ...	114
VG410	—	— ...	114
VG411	—	— ...	114
VG420	—	— ...	114
VG421	—	— ...	114
VG2503	—	— ...	114
VG2908	—	— ...	114
VG3008	—	— ...	114
VG3016	—	— ...	114
VG3630	—	— ...	114
VG5006	—	— ...	114
VG5007	—	— ...	114
VG5107	—	— ...	114
VH2	—	— ...	114
VH3	—	— ...	114
VH5	—	— ...	114
VH550	—	DCG4/1000ED	...
VH550A	—	DCG4/1000G	...
VH7400	—	DCG4/5000GB	...
VH7400A	—	DCG4/5000EG	...
VHPI3	—	— ...	114
VHT2	—	FC2 ...	114
VHT2A	H.	(CV1043), FC2A	115
VHT4	—	(CV2955), FC4, 15A2	115
VHTA	H.	(CV2956), 15D1	115

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
VHTS	H.	— ...	115
VJ5552	—	PL552A5	...
VLI	FFF.	— ...	115
VL4	FFF.	— ...	115
VL51	—	— ...	Appendix II
VLS61	—	— ...	115
VLS452	A.	CV3784	...
VLS492AG	A.	(CV1527)	...
VMI	—	— ...	115
VM4V	M.	AS4125	...
VME4	—	— ...	Appendix I
VMP4	J.	(CV1169)	...
VMP4G	J.	(CV1169)	...
VMP4(met)	J.	(CV1169)	...
VMS4	J.	(CV1165), AS4125	115
VMS4B	J.	— ...	115
VO2	U.	FC2A ...	115
VO2S	U.	— ...	115
VO4	U.	(CV2955), FC4 ...	115
VO4S	U.	— ...	115
VO6	—	— ...	115
VO13	U.	FC13C	...
VO13S	U.	FC13 ...	115
VO133	—	— ...	149
VP2	M.	CV3787	...
VP2B	—	CV520	...
VP2D	M.	— ...	149
VP3	—	— ...	115
VP4(met)	M.	CV3788	...
VP4A	M.U.	(CV1169)	...
VP4B	M.U.	CV3582	...
VP4C	—	— ...	115
VP4S	—	— ...	115
VP6	C.	EF92 ...	115
VP6S	—	— ...	115
VPI2D	H.	— ...	115
VPI3	U.	— ...	115
VPI3A	M.	— ...	115
VPI3B	U.	— ...	115
VPI3C	M.	CV3790	...
VPI3K	U.	— ...	116
VPI3S	U.	— ...	116
VP20	—	— ...	116
VP21	J.	(CV1083)	...
VP22	D.	— ...	116
VP23	D.	CV3792	...
VP24(met)	—	CV3793	...
VP4I	D.	(CV21)	...
VPI33	D.	CV1457	...
VP210	D.	CV3794	...
VP215	D.RR.	CV3795	...
VPI320	D.	— ...	116
VPI321	D.	— ...	116
VPI322	D.	CV3796, VPI3B, 902	116
VPT2	H.	VP210 ...	116
VPT4	H.	(CV1083)	...

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
VPT4	H.	(CV1169) ...	116
VPT4B	H.	(CV1169) ...	116
VPT210	H.	(CV1083) ...	—
VPTA	—	H. — ...	116
VPTS	—	— ...	116
VPUI	—	— ...	149
VPY2	—	— ...	116
YR75-ST	UUU.	OA3 ...	—
VR75/30	A.R.	CV3798, OA3, ...	—
		QS75/40	
VR90-30	—	CV3799 ...	—
VR90-ST	UUU.	OB3 ...	—
VR105-30	R.	CV686, OC3 ...	—
VR105-MT	UUU.	OB2 ...	—
VR105-ST	UUU.	OC3 ...	—
VR150-30	R.	(CV216), OD3, ...	—
		QS150/40	
VR150-MT	UUU.	OA2 ...	—
VR150-ST	UUU.	OD3 ...	—
VS2	H.	CV3800, PM12M	116
VS18BO	XX.	(CV3625) ...	—
VS24	J.	CV3802, PM12M	116
VS24/K (met)	J.	CV3803, PM12M	116
VS26	J.	(CV161) ...	—
VS210	—	PM12M ...	116
VS215	—	PM12M ...	116
VSGAI	—	— ...	116
VT1	—	— ...	116
VT2	—	— ...	116
VTP4	—	— ...	116
VX2	U.	VP2B ...	116
VX2S	U.	— ...	116
VX4	—	— ...	116
VX4S	U.	— ...	116
VX6S	—	— ...	116
VX13	—	— ...	116
VX13S	—	— ...	116
VX550A	—	DCX4/1000 ...	—
VX7400	—	DCX4/5000 ...	—
VY1	FFF.	— ...	116
VY2	FFF.	— ...	116
VY2N	—	— ...	117
W4	—	— ...	117
W4-500	—	— ...	117
W7/1D	R.	(CV2358) ...	—
W7/2D,	R.	(CV2188) ...	—
W17	J.	(CV785), DF91, 1T4	117
W21-4 Pin	J.	CV171 ...	117
W21-7 Pin	J.	CV3804 ...	117
W25	J.	DF96 ...	149
W30K	J.	CV3805 ...	117
W31	J.	CV3806 ...	117
W42	J.	— ...	117
W61	J.	CV100 ...	117
W63	J.	(CV1183), 6K7G, 6UT	117

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
W76	J.	12K7gt ...	117
W77	J.	(CV131), EF92, 9D6, 6F2I	117
W81	—	7H7 ...	117
W101	—	— ...	117
W107	J.	— ...	117
W118	J.	W145 ...	149
W119	J.	— ...	149
W142	—	UF41, 12AC5 ...	117
W143	—	EF22 ...	117
W145	—	— ...	117
W147	—	EF39 ...	117
W148	—	7H7 ...	117
W149	—	7B7 ...	117
W150	—	EF41, 6CJ5 ...	117
W213	—	— ...	117
W216	—	— ...	117
W318	—	— ...	117
W406	FFF.	— ...	117
W411	FFF.	— ...	117
W412	—	— ...	117
W415N	—	— ...	117
W420	—	— ...	117
W719	J.	EF85 ...	117
W727	J.	(CV454), EF93, 6BA6	—
W729	J.	— ...	117
W731D	A.	CV2538 ...	—
W739	J.	6F18 ...	149
W4080	FFF.	— ...	117
W4110	FFF.	— ...	117
WD2	—	— ...	149
WD30	J.	CV3810 ...	117
WD40	—	— ...	117
WD119	—	— ...	149
WD142	—	UAF42, 12S7 ...	117
WD150	—	EAF42, 6CT7 ...	117
W709	—	EBF80 ...	117
WE12	—	EM4 ...	—
WE17	—	PL5551 ...	—
WE23	—	— ...	117
WE24	—	— ...	117
WE27	—	— ...	117
WE28	—	— ...	118
WE29	—	— ...	118
WE30	—	— ...	118
WE33	—	— ...	149
WE35	—	— ...	149
WE37	—	— ...	149
WE38	—	— ...	149
WE39	—	— ...	149
WE51	—	— ...	118
WE52	—	— ...	118
WE53	—	— ...	150
WE54	—	— ...	150
WE189	—	1163 ...	—
WE350A	—	— ...	118

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page	Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
WE377	—	— ...	118	WT210-0082	—	— ...	118
WE403A	—	— ...	118	WT210-0083	—	— ...	118
WHTS	—	— ...	150	WT210-0084	—	— ...	118
WL17	—	PL5551 ...	—	WT210-0085	—	— ...	118
WL631	—	PL5559, 3V/390A, 57	—	WT210-0086	833A	— ...	—
WL651	—	PL5552A ...	—	WT210-0087	—	— ...	118
WL652	—	PL5551A ...	—	WT210-0089	—	— ...	118
WL653B	—	PL5555 ...	—	WT210-0090	—	— ...	118
WL655	—	PL5553B ...	—	WT210-0091	OA4G	— ...	—
WL289416D	—	1163, VE289 ...	—	WT210-0093	5668	— ...	—
WT389	—	— ...	118	WT210-0100	5796	— ...	—
WT390	—	— ...	118	WT210-0108	—	— ...	118
WT210-0001	—	2D21 ...	—	WT210-0116	632B	— ...	—
WT210-0003	—	WL884 ...	—	WT210-0120	KU610...	— ...	—
WT210-0004	—	WL2050 ...	—	WT210-0134	678	— ...	—
WT210-0006	—	— ...	118	WT210-0137	502A	— ...	—
WT210-0007	—	— ...	118	WT210-0141	5796	— ...	—
WT210-0008	—	866A ...	—	WT210-0157	5552A	— ...	—
WT210-0011	—	OC3 ...	—	WT210-0148	—	— ...	118
WT210-0012	—	— ...	118	WT262	2V/400A	— ...	—
WT210-0013	—	— ...	118	WT269	VR105	— ...	—
WT210-0015	—	PL5557 ...	—	WT272	PL5557, TQ2	— ...	—
WT210-0016	—	OB3 ...	—	WT294	VR150	— ...	—
WT210-0018	—	OD3 ...	—	WT606	2D21	— ...	—
WT210-0019	—	— ...	118	WT-T102	—	— ...	118
WT210-0021	—	— ...	118	WT-T105	—	892 ...	—
WT210-0025	—	— ...	118	WT-T106	—	6011 ...	—
WT210-0037	—	— ...	118	WT-T108	—	3C23 ...	—
WT210-0038	—	WL172 ...	—	WT-T110	—	5830 ...	—
WT210-0040	—	— ...	118	WT-T111	—	5559 ...	—
WT210-0042	—	— ...	118	WT-T112	—	632B ...	—
WT210-0043	—	5796 ...	—	WT-T113	—	KU676	—
WT210-0044	—	575A ...	—	WT-T117	—	5557 ...	—
WT210-0045	—	892 ...	—	WT-T118	—	105 ...	—
WT210-0047	—	3C23 ...	—	WT-T119	—	172 ...	—
WT210-0048	—	— ...	118	WT-T122	—	— ...	118
WT210-0051	—	OA2 ...	—	WT-T123	—	— ...	118
WT210-0054	—	5830 ...	—	WT-T124	—	— ...	118
WT210-0056	—	PL5559 ...	—	WT-T125	—	— ...	118
WT210-0057	—	632B ...	—	WT-T126	—	— ...	118
WT210-0058	—	KU676 ...	—	WT-T127	—	833A ...	—
WT210-0059	—	677 ...	—	WT-T128	—	— ...	118
WT210-0062	—	5557 ...	—	WT-T130	—	— ...	118
WT210-0063	—	5685 ...	—	WT-T131	—	— ...	119
WT210-0066	—	5665 ...	—	WT-T132	—	OA4G	—
WT210-0069	—	5557 ...	—	WT-T135	—	— ...	119
WT210-0070	—	5550 ...	—	WT-T141	—	VR57, VR75/30	—
WT210-0071	—	5551A ...	—	X14	—	1A7 ...	119
WT210-0072	—	5552A ...	—	X17	J.	(CV782), DK91, 1R5	119
WT210-0073	—	5553B ...	—	X18	J.	DK92, IAC6	119
WT210-0074	—	WL105 ...	—	X20	J.	— ...	119 & 150
WT210-0075	—	5822 ...	—	X21	J.	CV3816, FC2A	119
WT210-0077	—	5727 ...	—	X21 met	J.	CV3817	119
WT210-0078	—	WL182 ...	—	X22	J.	CV3818, FC2	119
WT210-0079	—	105 ...	—	X23	J.	(CV1082)	119
WT210-0081	—	— ...	118	X24	J.	CV3819	119

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
X24 met	J.	CV3820 ...	119
X25	J.	DK96 ...	—
X30	J.	1501 ...	119
X31	J.	CV3821, 2002 ...	119
X31 met	J.	CV3822 ...	119
X32	J.	— ...	119
X41	J.	(CV1460) ...	119
X41 met	J.	(CV2833) ...	119
X42	J.	(CV3576), MH4105, 15A2 ...	119
X61M	J.	(CV281) ...	119
X62	J.	— ...	119
X63	J.	CV3825, 6A8G ...	119
X64	J.	(CV1280), 6L7G ...	119
X65	J.	CV3826, 6K8G ...	119
X66	J.	(CV1099) ...	119
X71	J.	12K8 ...	119
X73	J.	— ...	119
X75	J.	— ...	119
X76	J.	12K8 ...	119
X77	J.	CV132, EK90, 6BE6 ...	119
X78	—	— ...	119
X79	J.	— ...	119
X81	—	7S7 ...	119
X99	Z.	— ...	119
X101	—	— ...	119
X107	—	— ...	119
X108	—	— ...	119
X109	—	— ...	119
X117	J.	5D22 ...	—
X118	J.	X145 ...	150
X119	—	UCH81 ...	150
X142	—	UCH42, 14K7 ...	120
X143	—	ECH21 ...	120
X145	—	— ...	120
X147	—	ECH35 ...	120
X148	J.	7S7 ...	120
X150	—	ECH42 ...	120
X661	RR.	(CV2183) ...	—
X662	RR.	(CV2234) ...	—
		(CV2256) ...	—
X719	J.	CV2128, ECH81 ...	120
X727	J.	(CV453), EK90, 6BE6 ...	120
X6030	S.	— ...	120
XBI	RR.	(CV2293) ...	—
XBI	RR.	(CV2293) ...	—
XB875B	UUU.	2051 ...	—
XD	—	— ...	120
XDI.5	RR.	— ...	120
XD2.0	RR.	— ...	120
XEI	RR.	(CV495) ...	—
XE2	RR.	(CV2202) ...	—
XF54M	—	— ...	—
XFR1	RR.	— ...	120
XFR2	RR.	— ...	120
XFR3	RR.	— ...	120

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
XFR5	RR.	— ...	150
XFW10	RR.	— ...	120
XFW20	RR.	— ...	150
XFW30	RR.	— ...	120
XFW40	RR.	— ...	120
XFW50	RR.	— ...	120
XFY10	RR.	— ...	120
XFY11	RR.	— ...	120
XFY12	RR.	— ...	120
XFY14	RR.	— ...	120
XFY15	RR.	— ...	150
XFY20	RR.	— ...	120
XFY21	RR.	— ...	120
XFY22	RR.	— ...	120
XFY23	RR.	— ...	120
XFY31	RR.	— ...	120
XFY32	RR.	— ...	120
XFY33	RR.	— ...	120
XFY34	RR.	— ...	120
XFY35	RR.	— ...	120
XFY41	RR.	— ...	120
XFY43	RR.	— ...	120
XFY51	RR.	— ...	120
XFY53	RR.	— ...	120
XFY53M	—	— ...	150
XFY54	RR.	— ...	150
XG1-2500	—	PL5559 ...	—
XG2-12	—	PL255 ...	—
XG2-500	M.	CV1144 ...	120
XG5-500	M.	(CV2957) ...	—
XG15/10	—	DCG7/100 ...	—
XG15/12	—	DCG7/100B ...	—
XG25	—	PL260 ...	—
XGQ2-6400	—	PL105 ...	—
XGR3	—	(CV151) ...	—
XH1.5	RR.	CV3830 ...	120
XH2.0	RR.	— ...	120
XH3-045	M.	(CV372) ...	—
XH8-100	RR.	(CV1787) ...	—
XH16-200	RR.	(CV2520) ...	—
XH25-500	RR.	CV3521 ...	—
XHPI.5	RR.	— ...	150
XL	RR.	— ...	120
XLO1.5	RR.	— ...	121
XL02.0V	RR.	(CV1701) ...	121
XLI.5	RR.	(CV1720) ...	121
XL2.0V	RR.	(CV38131) ...	121
XN	RR.	(CV14) ...	—
XP	RR.	— ...	121
XPI.5	RR.	(CV176) ...	121
XP2.0V	RR.	CV1702 ...	121
XP4	—	PX4 ...	—
XRI-12	M.	5855 ...	—
XRI-600	M.	CV3706 ...	—
XRI-3200	M.	(CV2210) ...	—
XRI-6400	M.	CV2215 ...	—

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
XR2	—	— ...	121
XR4	—	— ...	150
XR6	RR.	CV465	150
XR7	RR.	CV466	150
XR8	RR.	CV468	150
XR9	RR.	— ...	150
XSG.	—	— ...	121
XSG1.5V	RR.	(CV175)	121
XSG2.0V	RR.	CV3833	121
XVS2.0V	RR.	— ...	121
XW075A	—	— ...	121
XW075B	RR.	— ...	150
XW1.5	RR.	— ...	121
XW2.0V	RR.	(CV1703)	121
XXB	Q.	— ...	121
XXD	Q.S.	— ...	121
XXFM	S.	— ...	121
XXL	S.	— ...	121
XY	—	— ...	121
XY1.4A	RR.	— ...	150
XY1.4B	RR.	— ...	150
XY1.4C	RR.	— ...	150
XY1.5	RR.	— ...	121
XY2.0V	RR.	— ...	121
XY14B	—	— ...	121
XY14CC	—	— ...	121
Y13	—	— ...	121
Y25	J.	IMI ...	Appendix I
Y61	J.	(CV1103), 6U5G	Appendix I
Y62	—	— ...	Appendix I
Y63	J.	(CV1103), 6U5G	Appendix I
Y64	J.	— ...	Appendix I
Y65	J.	(CV51)	Appendix I
Y119	J.	UM80	Appendix I
Y220	RR.	(CV1118)	121
Y230	—	— ...	121
YD2	—	— ...	150
Z14	—	1N5G	121
Z21	J.	CV3836	121
Z21 (7Pin)	J.	CV3837	121
Z26	—	— ...	121
Z62	J.	CV3838	121
Z63	J.	6J7G ...	121
Z66	J.	CV3839	121

Commercial Valve	Manufacturer	Equivalent (or nearest in brackets)	Page
Z73	—	— ...	121
Z77	J.	(CV138), EF91, 8D3, 6AM6	121
Z90	J.	(CV1091), EF50	121
Z142	—	UF42	121
Z145	—	— ...	121
Z150	—	EF42	121
Z152	—	EF80, 6BX6, 6BW7	122
Z203C	M.	CV2271	—
Z220	—	— ...	122
Z225	—	DQ2	—
Z303C	M.	CV2271, QCI0B	—
Z239/IG	R.	CV2187	—
Z300T	M.	(CV1992)	—
Z309	J.	— ...	122
Z319/IG	R.	(CV2187)	—
Z319	J.	CV2276	122
Z329	J.	30F5	150
Z359	J.	— ...	122
Z502S	M.	CV2325, GC10C/S	—
Z719	J.	6BX6, EF80, 6BW7, Z152	122
Z729	J.	CV2901, EF86, 6F22	122
Z749	—	— ...	150
Z759	J.	CV5060	122
Z800U	M.	(CV2236)	—
Z801U	M.	(CV2255)	—
Z803U	M.	CV2434	—
Z900T	—	5823	—
Z5823	—	Z900T	—
ZA1	J.	(CV1175)	—
ZA2	J.	(CV1095)	—
ZD	H.	— ...	122
ZD2	—	— ...	150
ZD17	J.	(CV784), DAF91, 1S5	122
ZD25	J.	DAF96	150
ZD152	—	6N8, EBF80	122
ZG532	—	CV2647	—
ZG547	—	(CV372)	—
ZP455	—	CV2789	—
ZP477	—	CV914	—
ZP527	—	CV855	—
ZP572	—	2C39A	—
ZP579	—	CV3842	—
ZP584	—	CV3843	—
ZP590	—	CV3844	—

SERVICE VALVE INDEX & CROSS REFERENCE

The equivalents given below are purely for convenience, and it does not necessarily follow that the data for any given valve type will appear in the data pages or even that the valve given can be tested on an 'AVO' Valve Characteristic Meter, or an 'AVO' Valve Tester.

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
AD1	DLS10	...	ARP35	EF50	... 74	CV20	VI906	... 114
AR4	PM1HF	... 95	ARP36	SP61	... 104	CV21	VP41	... 116
AR5	P220	... 92	ARP37	QP25	... 98	CV22	BT45	... —
AR6	LP2	... 87	ARP38	KTZ73	... 86	CV24	HL41	... 81
AR7	4D1	... 7	ARS7	VS24	... 116	CV25	4242A	... —
AR8	HL23DD	... 81	ARS8	PM12V	... 95	CV26	813	... —
AR9	PM1LF	... 95	ARTH2	ECH35	... 73	CV27	4357A	... —
AR10	TDD2A	... 107	ARTP1	TP22	... 107	CV28	ACT9	... —
AR11	4019B	... 43	ARTP2	TP25	... 107	CV29	E1235	... —
AR12	4020A	... 43	AT20	MZ05/20	... 89	CV30	4270A	... —
AR13	B406	... 58	AT35	DET25	... —	CV31	U20	... 108
AR14	220RC	... —	AT37	ACT36	... —	CV32	RG3-250M	... —
AR15	220LF	... —	ATS25	807	... 40	CV33	4077A	... 44
AR16	220B	... 37	ATP4	V248A	... 113	CV34	MR10...	... —
AR17	MH4	... 88	ATP5	V245	... 113	CV38	E1198	... —
AR20	4021B	... 43	ATP7	V266	... —	CV39	S22AF	... —
AR21	EBC33	... 72	ATP10	I062A	... 44	CV40	E1255	... —
ARD2	DI	... 61	ATP35	PV1-35	... 97	CV41	E1267	... —
ARD4	D42	... 62	ATP75	PT6	... —	CV42	E1256	... —
ARDD1	I0D1	... 23	ATP100	4069A	... —	CV44	E1155	... —
ARDD3	6H6	... 17	ATS25A	807	... 40	CV45	S130P	... —
ARDD5	EB34	... 71	ATS70	4282B	... —	CV46	8011	... —
ARH1	6L7	... 18	AU1	U18	... 108	CV49	3B/501A	... —
ARPI	PT2	... 96	AU2	RG250	... —	CV51	A1320	... —
ARP2	SP2	... 104	AU3	U12/14	... 108	CV52	E1231	... —
ARP3	9D2	... 23	AU3A	I561	... 42	CV53	3A/I46J	...
ARP4	SP210	... 104	AU4	U17	... 108	Appendix III		
ARP5	VP2	... 115	AU5	VI907	... 114	CV54	V960	... 114
ARP6	SP4	... 104	AU6	GU50	... —	CV55	E1190	... —
ARP7	42MPT	... 33	AU8	U22	... 108	CV56	E1325	... —
ARP8	AC4Pen	... 53	AU12	U15	... 108	CV57	E1271	... —
ARP9	PenI340	... 94	AU13	5Z4	... 10	CV58	E1273	... —
ARP9A	7D8	... 21	AW2	7475	... —	CV62	E1046	... —
ARPI0	PenA4	... 94	AW3	S130	... —	CV63	E1323	... 70
ARPI1	TSP4	... 107	AW4	STV280/40	... —	CV64	E1342	... —
ARPI2	VP23	... 116	AW5	ME41	Appendix I	CV65	Pen25	... 93
ARPI3	VP210	... 116	AW6	EM31	Appendix I	CV66	RL37	... —
ARPI4	220IPT	... 37	CV1	D051	... —	CV69	E1326	... —
ARPI5	KTW63	... 86	CV2	E1228	... —	CV71	ASGLIM	... —
ARPI6	6J7	... 18	CV3	AFN202	... —	CV72	VI120	... 114
ARPI7	6F6	... 17	CV4	E1229	... —	CV73	I1E3	... —
ARPI8	KT24	... 85	CV5	4049D	... —	CV74	ESU74	... —
ARPI9	SP41	... 104	CV6	E1148	... 70	CV75	4313C	... —
ARP20	SP42	... 104	CV8	E1356	... —	CV76	E1359	... —
ARP21	Z62	... 121	CV9	AL60	... 56	CV77	K TUBE	... —
ARP22	I16/Pen	... 36	CV12	E1191	... —	CV78	E1137	... 70
ARP23	MS/Pen	... 89	CV13	BT9B	... —	CV79	E1379	... —
ARP24	220VPT	... —	CV14	XN	... —	CV80	VF01	... —
ARP25	KT41	... 86	CV15	E1226	... —	CV81	VF08	... —
ARP26	KT44	... 86	CV16	S25A	Appendix III	CV82	3A/I47J	...
ARP33	MSP4	... 89	CV18	DET19	... 64	Appendix III		
ARP34	EF39	... 74	CV19	EHT1	... —	CV84	4033A	... 43

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV85	V2023	...	CV155	E1190	...	CV230	DV55	...
CV86	V1507	...	CV158	KR3	...	CV232	MF	...
CV87	KRN2	...	CV159	ALI	56	CV233	B55	...
CV88	DV32 Appendix III	...	CV160	E1342	...	CV234	DV56	...
CV89	E1380	...	CV161	E1342	...	CV235	U23	108
CV90	E1368	...	CV162	5Z094	...	CV236	E1465	...
CV92	E1332	...	CV163	5744WA	...	CV237	KR6/2	...
CV93	V625 Appendix III	...	CV164	CG3E	...	CV238	RK6/3	...
CV94	DS103	...	CV165	CS36A	...	CV240	ACT24	...
CV95	R3/10...	...	CV166	GEX54/3	...	CV242	GS18	...
CV96	R3/16...	...	CV167	TY4/500B	...	CV243	4045A Appendix III	...
CV97	R2/10...	...	CV168	XD60	...	CV244	AF2	55
CV98	R2/38...	...	CV169	XD61	...	CV245	4328D	44
CV99	E1373	...	CV170	12SF7GT	...	CV248	GS16	...
CV100	V2D33B	...	CV171	W21(4 Pin)	117	CV249	40I9A	43
CV105	E1371 Appendix III	...	CV172	E1468	...	CV250	CMG25RS	...
CV108	BM313	...	CV173	EF55	75	CV251	MX57	...
CV109	9KP5	...	CV174	E1459	...	CV252	ACR22	...
CV110	VS68	...	CV175	XSG1.5	121	CV253	CS3A	...
CV114	E1265	...	CV176	XPI.5	121	CV254	9L01A	...
CV115	E1415	...	CV177	813	...	CV256	NS2	...
CV116	KR6/I	...	CV178	E1458	...	CV257	ACT22	...
CV117	E1417	...	CV180	KR4	...	CV258	E1273	...
CV118	SP61	104	CV181	ECC32	72	CV259	E1495	...
CV119	XJ	...	CV182	E1488	...	CV260	SP61	104
CV120	MF	...	CV185	PM202	95	CV261	R10	99
CV121	VI920 Appendix II	...	CV186	E1342	...	CV262	9MP6	...
CV122	E1336 Appendix III	...	CV187	U19	108	CV263	VX3026	...
CV123	E1330	...	CV188	7475	...	CV264	API188	...
CV124	807	40	CV189	BS4	...	CV265	I9E2	...
CV125	2043	...	CV190	DLS10	...	CV266	E1336	...
CV126	E1362	...	CV191	E1494	...	CV267	E1336	...
CV127	S30A	...	CV192	E1481	...	CV268	E1330	...
CV128	SU750	...	CV199	NT99	...	CV269	VCR97	...
CV129	KRN2A	...	CV200	MZ2-200	...	CV271	V986	...
CV130	KRN3	...	CV201	V630 Appendix III	...	CV272	KR6/4	...
CV131	9D6	23	CV202	YF	...	CV273	5861 Appendix III	...
CV132	V885 Appendix III	...	CV207	AC/P4	54	CV275	V1042	...
CV133	6C4	15	CV208	I487	...	CV276	I1E2	24
CV135	EY91	77	CV209	MX57	...	CV277	I9G3	28
CV136	7D9	21	CV211	V2030B	...	CV278	E1606	70
CV137	EAC91	71	CV212	LS594	...	CV279	NG16	...
CV138	EF91	75	CV214	E1531	...	CV281	X61	119
CV139	6L34	18	CV215	E1497	...	CV283	6AL5	11
CV140	6AL5	11	CV216	VR150/30	...	CV284	STV30/20	...
CV141	U4B	...	CV217	KRN3	...	CV285	VA35	...
CV142	U2	...	CV218	KRN3	...	CV286	QS95/10	...
CV143	U3	...	CV219	E1046	...	CV287	ACT23	...
CV144	U4	...	CV220	631/PI	...	CV288	ACT23	...
CV145	U5	108	CV221	E1516	...	CV289	G400	...
CV147	U7	...	CV222	E1489	70	CV290	E1527	...
CV148	U8	108	CV223	KRN2A	...	CV292	E1481	...
CV149	U7	...	CV224	KRN2A	...	CV293	CV497	...
CV150	PK150	...	CV225	ACT17	...	CV295	BS54	...
CV152	GU21	...	CV228	DV40B	...	CV296	DDR2	64
CV153	E1411	...	CV229	I336 Appendix III	...	CV298	FA15	...
CV154	E1419	...				CV299	V230A/IK	...

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV302	ECH22	...	CV382	T24/40JA	...	CV443	CK505AX	...
CV303	EF22	...	CV383	T24/40JB	...	CV444	MZI-75	...
CV304	EL22	...	CV384	DET5 Appendix III	...	CV445	5J/180E	...
CV305	EF51	...	CV385	DL71	...	CV446	3Q/260E	...
CV306	MX52	...	CV386	DF70	...	CV447	4078GA	...
CV307	VCRS30	...	CV387	DL72	...	CV448	GEX54	...
CV309	QV04-7	...	CV389	VCRX210	...	CV449	85A2	...
CV310	NHPI	...	CV391	5B/255M	...	CV450	EL38	...
CV311	54/444	...	CV394	EM34	...	CV451	ET3	...
CV312	ESU74	...	CV395	QSI50/45	...	CV452	6AT6	...
CV313	QSY50-P40	...	CV397	DET24	...	CV453	6BE6	...
CV315	TY1-51	...	CV398	715B	...	CV454	6BA6	...
CV317	Appendix II	...	CV399	MH4	...	CV455	12AT7	...
CV319	E1453	...	CV400	3E7	...	CV456	E1633	...
CV320	E4103/B/4	...	CV402	BS68	...	CV460	BS48	...
CV321	KT66	...	CV403	FVD7	...	CV461	BS92	...
CV324	CVI628	...	CV404	HR7	...	CV462	BS84	...
CV326	15B	...	CV405	927	...	CV463	BS82	...
CV327	EF52	...	CV406	E1423	...	CV464	9L01A	...
CV328	L9	...	CV407	E4412/E/9	...	CV465	EF72	...
CV329	6F33	...		with side contacts	...	CV466	EF73	...
CV335	VCR522B	...	CV408	A1714	...	CV467	EF70	...
CV336	VCR522C	...	CV409	A1820	...	CV468	EC70	...
CV337	27MI	...	CV410	K3A	...	CV469	EA76	...
CV338	E1524	...	CV411	GM5	...	CV471	EL70	...
CV339	24B2	...	CV412	A800	...	CV472	EF74	...
CV342	DLS19	...	CV413	G150/2D	...	CV473	EY70	...
CV343	V894	...	CV415	TT15	...	CV474	5643	...
CV344	E1323	...	CV416	6F17	...	CV475	EF71	...
CV345	12E1	...	CV417	EC91	...	CV476	T921	...
CV346	EZ22	...	CV418	MX2	...	CV477	5899	...
CV347	EBC21	...	CV419	EC91	...	CV482	A237	...
CV349	V2030E	...	CV420	VCRX277	...	CV483	QV04-7R	...
CV352	EBC33	...	CV421	CAT20C	...	CV484	DL92	...
CV353	M500	...	CV422	QSI08/45	...	CV486	V2046a	...
CV354	MEI005	...	CV423	25SN7	...	CV487	CRT/51	...
CV355	E1511	...	CV424	QQV06-40	...	CV488	BS90	...
CV356	E1511	...	CV425	CG1-C	...	CV489	BT75	...
	Appendix III	...	CV426	EY51	...	CV490	19H5	...
CV357	DL65747	...	CV427	5D21	...	CV491	12AU7	...
CV358	EF37A	...	CV428	5B/254M	...	CV492	12AX7	...
CV359	NE17	...	CV429	12AEP6	...	CV493	6X4	...
CV360	NE18	...	CV430	29CI	...	CV494	B12	...
CV361	{SV-828 5B/700A	...	CV431	85A1	...	CV495	5802	...
CV367	1N21B	...	CV432	MEI400	...	CV496	CG14...	...
CV368	9-3	...	CV433	BIC1E	...	CV498	NE17	...
CV369	1B35	...	CV434	QST5/60	...	CV499	5B/256M	...
CV370	2J42	...	CV435	GT11	...	CV500	6T7	...
CV371	19G6	...	CV436	ACT25	...	CV501	EBF32	...
CV372	3C45	...	CV437	KT76	...	CV502	LD210	...
CV374	S3A	...	CV438	G120/1B	...	CV503	5W4	...
CV375	EA50	...	CV439	22/11BXA	...	CV504	6U5	...
CV377	V1135C	...	CV440	1601ABC	...	CV505	MT16	...
CV378	53KU	...	CV441	V1052	...	CV506	GL8023	...
CV379	ACT19	...	CV442	GEX35	...	CV507	REL64	...
CV380	EF54	...				CV508	4B49	...
						CV509	6V6G	...

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV510	6V6 ...	20	CV567	35Z5 ...	32	CV624	804 ...	—
CV511	6V6 ...	20	CV568	35Z5 ...	32	CV625	805 ...	40
CV512	6W7 ...	20	CV569	ECC35 ...	73	CV626	808 ...	—
CV513	4J53 ...	—	CV570	3Q/195E ...	—	CV627	810 ...	—
CV514	2J36 ...	—	CV571	50L6 ...	34	CV628	811 ...	—
CV515	6Y6 ...	20	CV572	6X5 ...	20	CV629	814 ...	—
CV516	3GPI ...	—	CV573	6X5 ...	20	CV630	826 ...	—
CV517	OZ4A ...	1	CV574	EZ35 ...	78	CV631	828 ...	—
CV518	AC/VPI ...	55	CV575	5U4 ...	10	CV632	829 ...	—
CV519	Pen4DD ...	93	CV576	1B26 ...	—	CV634	832 ...	—
CV520	VP2B ...	115	CV577	1B36 ...	—	CV633	829A ...	—
CV521	R4410 ...	—	CV578	6A8 ...	11	CV635	833 ...	—
CV522	7B7 ...	21	CV579	6A8 ...	11	CV636	836 ...	40
CV523	12Y4 ...	26	CV580	6A8 ...	11	CV637	837 ...	—
CV524	TT12 ...	108	CV581	6C5 ...	15	CV638	838 ...	—
CV525	12A6 ...	24	CV582	6C5 ...	15	CV639	843 ...	41
CV526	12A6 ...	24	CV583	6G5 ...	—	CV640	860 ...	—
CV527	DA60 ...	—	CV584	GSI46 ...	—	CV641	861 ...	—
CV528	VA16 ...	—	CV585	6C6 ...	15	CV642	872A ...	—
CV529	12AH7 ...	24	CV586	EL37 ...	76	CV643	874 ...	—
CV530	G71E ...	—	CV587	6Q7 ...	19	CV644	875A ...	—
CV531	12C8 ...	25	CV588	6Q7 ...	19	CV645	876 ...	—
CV532	GUI1 ...	—	CV589	6Q7 ...	19	CV646	879 ...	41
CV533	CAT17C ...	—	CV590	6SJ7 ...	19	CV647	884 ...	41
CV534	12J5 ...	25	CV591	6SJ7 ...	19	CV648	885 ...	—
CV535	12J5 ...	25	CV592	6SJ7 ...	19	CV649	956 ...	—
CV536	4120/AA ...	—	CV593	GZ32 ...	80	CV650	958 ...	—
CV537	12SA7 ...	26	CV594	6SH7 ...	19	CV651	991 ...	—
CV538	12SA7 ...	26	CV595	6SH7 ...	19	CV652	1603 ...	42
CV539	1B23 ...	—	CV596	2C45 ...	—	CV653	1611 ...	42
CV540	12SC7 ...	26	CV597	2X2A ...	5	CV654	1612 ...	42
CV541	1B3 ...	1	CV598	715C ...	—	CV655	1613 ...	42
CV542	5J23 ...	—	CV599	1851 ...	43	CV656	1616 ...	42
CV543	12SK7 ...	26	CV600	5CPI ...	—	CV657	1620 ...	42
CV544	12SK7 ...	26	CV601	5BPI ...	—	CV658	1622 ...	42
CV545	ACSP3 ...	—	CV602	3API ...	—	CV659	1625 ...	42
CV546	12SQ7 ...	26	CV603	10 ...	23	CV660	6AC7 ...	11
CV547	12SQ7 ...	26	CV604	30 ...	31	CV661	6AB7 ...	11
CV548	LP2 ...	87	CV605	32 ...	31	CV662	8012 ...	—
CV549	25A6 ...	29	CV606	37 ...	32	CV663	8025 ...	—
CV550	25A6 ...	29	CV607	38 ...	32	CV664	9002 ...	50
CV551	26L6 ...	30	CV608	41 ...	32	CV665	9003 ...	50
CV552	25L6 ...	30	CV609	42 ...	33	CV666	9004 ...	—
CV553	25L6 ...	30	CV610	45 ...	33	CV667	9005 ...	—
CV554	D63 ...	62	CV611	56 ...	34	CV668	35T ...	—
CV555	25Z5 ...	30	CV612	57 ...	34	CV669	279A ...	—
CV556	QP25 ...	98	CV613	58 ...	34	CV670	645 ...	—
CV557	D42 ...	62	CV614	75 ...	35	CV676	726A ...	—
CV558	25Z6 ...	30	CV615	76 ...	35	CV677	701A ...	—
CV559	25Z6 ...	30	CV616	77 ...	35	CV678	702A ...	—
CV560	TSP4 ...	107	CV617	80 ...	35	CV679	703A ...	—
CV561	35L6 ...	32	CV618	83 ...	35	CV683	316A ...	—
CV562	35L6 ...	32	CV619	84/6Z4 ...	35 & 20	CV684	274B ...	38
CV563	DA30 ...	62	CV620	211 ...	—	CV685	VR150-30 ...	—
CV564	35Z3 ...	32	CV621	801 ...	—	CV686	OC3 ...	—
CV565	35Z3 ...	32	CV622	802 ...	40	CV687	446B ...	39
CV566	RG-2 ...	—	CV623	803 ...	—	CV688	2C43 ...	—

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV689	700A ...	—	CV748	725A ...	—	CV807	3A4 ...	5
CV690	RK48A ...	—	CV749	IN23A ...	—	CV808	3A5 ...	5
CV691	357A ...	—	CV750	01A ...	1	CV809	3A/105B ...	—
CV692	OZ4 ...	1	CV751	HY75 ...	—	CV810	3AE ...	—
CV693	HF300 ...	—	CV752	OA4 ...	—	CV811	1291 ...	41
CV694	12SG7 ...	26	CV753	1A3 ...	1	CV812	3B24 ...	6
CV695	700B ...	—	CV754	1A4P ...	1	CV813	959 ...	—
CV696	700C ...	—	CV755	1A5 ...	1	CV815	3D6 ...	6
CV697	12SJ7 ...	26	CV756	1A5 ...	1	CV816	3DPI ...	—
CV698	12SJ7 ...	26	CV757	1A6 ...	1	CV817	3EPI ...	—
CV699	700D ...	—	CV758	1B4P ...	1	CV818	3Q4 ...	7
CV700	12SR7 ...	26	CV759	1B5 ...	1	CV819	3Q5 ...	7
CV701	ESA892 ...	—	CV760	1B7 ...	1	CV820	3S4 ...	7
CV702	830B ...	—	CV761	1B22 ...	—	CV821	4AI ...	—
CV703	12K8 ...	25	CV762	1C21 ...	—	CV822	4B24 ...	—
CV704	RK20A ...	—	CV763	1CA4 ...	—	CV823	7A ...	—
CV705	1D5GP ...	2	CV764	1D5 ...	2	CV824	4E27 ...	—
CV706	6U7 ...	20	CV765	1D7 ...	2	CV825	4SHA... ...	—
CV707	HK54... ...	—	CV766	1E5GP ...	2	CV826	4THA ...	8
CV708	16I ...	—	CV767	1F4 ...	2	CV828	4TPB ...	8
CV709	72 ...	35	CV768	1F5G ...	2	CV829	4TPB ...	8
CV710	368A ...	—	CV769	1F6 ...	2	CV830	4TSP ...	8
CV711	32 ...	31	CV770	1F7 ...	2	CV831	5API ...	—
CV712	38 ...	32	CV771	1G5 ...	2	CV832	5API ...	—
CV713	1B27 ...	—	CV772	1G6 ...	2	CV833	89 ...	35
CV714	C6A ...	—	CV773	1G6 ...	2	CV834	5B/300B ...	—
CV716	8013A ...	50	CV774	1H4 ...	2	CV836	5BP4 ...	—
CV717	5R4GY ...	10	CV775	1LA6 ...	3	CV837	12C8 ...	25
CV718	5FP7 ...	—	CV776	1LB4 ...	3	CV838	5CP7 ...	—
CV719	2J21A ...	—	CV777	1LC5 ...	3	CV839	5GPI ...	—
CV720	723A ...	—	CV778	1LC6 ...	3	CV840	5H4 ...	—
CV722	725A ...	—	CV779	1LD5 ...	3	CV841	5U4 ...	10
CV723	1619 ...	42	CV780	1LH4 ...	3	CV842	5W4 ...	10
CV724	816 ...	40	CV781	1LN5 ...	3	CV843	6AB5 ...	—
CV725	1B24 ...	—	CV782	1R5 ...	3	CV844	6AC5 ...	11
CV726	35Z3 ...	32	CV783	1S4 ...	3	CV845	6AC5 ...	11
CV727	1N21 ...	—	CV784	1S5 ...	3	CV846	6AC7 ...	11
CV728	1P5GT ...	3	CV785	1T4 ...	3	CV847	6AF6g ...	—
CV729	5V4 ...	10	CV786	1T5 ...	3	CV848	6AG5... ...	11
CV730	6A3 ...	10	CV787	2A7 ...	4	CV849	6AC7 ...	11
CV731	6F6 ...	11	CV788	832A ...	—	CV850	6AK5 ...	11
CV732	6W4gt ...	20	CV789	3C24 ...	—	CV851	6B4 ...	13
CV733	REL8D ...	—	CV790	2API ...	—	CV852	6C4 ...	15
CV734	228A ...	—	CV791	2B7 ...	4	CV854	6C7 ...	15
CV735	845 ...	—	CV792	2C22 ...	4	CV855	6C21 ...	—
CV736	905 ...	—	CV793	2C33 ...	4	CV856	6G8 ...	17
CV737	906 ...	—	CV794	2D2 ...	4	CV857	6H7 ...	—
CV738	953 ...	—	CV795	2D4A... ...	4	CV858	6J6 ...	18
CV739	3API ...	—	CV796	2D13C ...	5	CV859	6J8 ...	18
CV740	5MPI ...	—	CV797	2D21 ...	5	CV860	6K5 ...	18
CV741	5LPI ...	—	CV798	2E22 ...	5	CV861	6K5 ...	18
CV742	FG67 ...	—	CV800	2J22 ...	—	CV862	6L5 ...	18
CV743	GET2 ...	—	CV801	2J54 ...	—	CV864	6P7 ...	18
CV744	GET4½ ...	—	CV802	2C26 ...	5	CV865	6SD7	19
CV745	HK24... ...	—	CV803	2V3 ...	5	CV866	6SJ7Y ...	19
CV746	468PI ...	—	CV804	2V3 ...	5	CV867	6SR7 ...	19
CV747	6AC7 ...	11	CV805	50Y6 ...	34	CV869	6V5gt ...	20

Service	Commercial		Service	Commercial		Service	Commercial	
Type	Equivalent	Page	Type	Equivalent	Page	Type	Equivalent	Page
CV870	6V7 ...	20	CV929	13SPA ...	27	CV1022	220PA ...	37
CV871	6Z5 ...	20	CV930	14F7 ...	27	CV1023	230XP ...	37
CV872	6Z7 ...	21	CV931	15 ...	27	CV1025	DET25 ...	—
CV873	6ZY5 ...	21	CV932	446A ...	39	CV1027	210LF ...	37
CV874	7 ...	—	CV933	15E ...	—	CV1028	220VSG ...	37
CV875	1642 ...	42	CV934	15R ...	—	CV1029	ESU150 ...	—
CV876	7A6 ...	21	CV936	24A ...	29	CV1030	4060A ...	—
CV877	7A7 ...	21	CV937	25A7 ...	29	CV1031	ESG250 ...	—
CV878	7A8 ...	21	CV938	25AC5 ...	—	CV1032	220B ...	37
CV879	7B4 ...	21	CV939	25B6 ...	30	CV1034	DET3 ...	—
CV880	7B5 ...	21	CV940	25B8 ...	30	CV1035	QP2I ...	98
CV881	7B5 ...	21	CV941	HK24 ...	—	CV1036	220PA ...	37
CV882	7B6 ...	21	CV942	25Y5 ...	30	CV1037	MH4 ...	88
CV883	7B8 ...	21	CV943	26 ...	30	CV1038	MHL4 ...	88
CV884	7BP7 ...	—	CV944	27 ...	31	CV1039	1561 ...	42
CV885	7C5 ...	21	CV945	28D7 ...	31	CV1040	PX25 ...	98
CV886	7C5 ...	21	CV946	28D7 ...	31	CV1041	PM12M ...	95
CV887	7C6 ...	21	CV947	31 ...	31	CV1042	210LF ...	37
CV888	7D7 ...	21	CV948	32L7 ...	31	CV1043	210PG ...	37
CV889	7D8 ...	21	CV949	33 ...	31	CV1044	210DDT ...	37
CV890	7E5 ...	21	CV951	32A ...	—	CV1045	X56 ...	—
CV891	7E6 ...	21	CV952	4081 ...	—	CV1046	PT25H ...	97
CV892	7E7 ...	21	CV953	32 ...	—	CV1047	TZ05-50 ...	—
CV893	7F7 ...	21	CV954	20K ...	—	CV1048	215SG ...	37
CV894	7G7 ...	22	CV955	4409 ...	—	CV1049	210SPT ...	37
CV895	7H7 ...	22	CV956	4602 ...	—	CV1050	HL2 ...	81
CV896	7K7 ...	22	CV957	32 ...	31	CV1051	Pen220A ...	94
CV897	7J7 ...	22	CV958	26J ...	—	CV1052	EL32 ...	76
CV898	7N7 ...	22	CV959	20K ...	—	CV1053	EF39 ...	74
CV899	7Q7 ...	22	CV960	E4504/B/16 ...	—	CV1054	EB34 ...	71
CV900	7R7 ...	22	CV961	NC13 ...	—	CV1055	EB33 ...	72
CV901	7Y4 ...	22	CV962	E4504/E/16 ...	—	CV1056	EF36 ...	74
CV902	7W7 ...	22	CV963	CV1596 ...	—	CV1057	EK32 ...	76
CV904	892R ...	—	CV964	E4205-B7 ...	—	CV1058	EP60 ...	—
CV905	9HP7 ...	—	CV966	E4504/M/16 ...	—	CV1059	955 ...	—
CV906	1602 ...	42	CV967	E4103/B/4 ...	—	CV1060	807 ...	40
CV907	12A ...	24	CV977	Twin CV55 ...	—	CV1061	DET19 ...	64
CV908	12A5 ...	24	CV979	DSL10 ...	—	CV1062	TY1-50 ...	—
CV909	12A7 ...	24	CV982	Button	—	CV1064	U12/14 ...	108
CV910	12A8 ...	24		Tune-on	—	CV1065	SP61 ...	104
CV911	12B8 ...	24	CV984	S2A ...	—	CV1066	P61 ...	92
CV913	12DP7 ...	—	CV986	15A ...	—	CV1067	6J5 ...	18
CV914	12DP7 ...	—	CV987	NC13A ...	—	CV1068	STV280/40 ...	—
CV915	12FP7 ...	—	CV988	Neon	—	CV1069	STV280/80 ...	—
CV916	12H6 ...	25		Type 'G'	—	CV1070	7475 ...	—
CV917	12J7 ...	25	CV995	6AJ5 ...	11	CV1071	U52 ...	109
CV918	12K7 ...	25	CV996	EL32 ...	76	CV1072	GU50 ...	—
CV919	12SF5 ...	26	CV997	3092 ...	—	CV1073	H63 ...	80
CV920	12SF5 ...	26	CV998	2000T ...	—	CV1074	6J7 ...	18
CV921	12SF7 ...	26	CV999	3C22 ...	—	CV1075	KT66 ...	86
CV922	12SK7 ...	26	CV1000	4DI ...	7	CV1076	DA41 ...	—
CV923	12SJ7 ...	26	CV1001	SU2150A ...	105	CV1077	EM31 Appendix I	—
CV924	12SL7 ...	26	CV1002	E1192 ...	70	CV1078	DI ...	61
CV925	12SN7 ...	26	CV1018	215SG ...	37	CV1079	KT8 ...	85
CV926	4B35 ...	—	CV1019	PM2 ...	95	CV1080	4307A ...	—
CV927	12Z3 ...	26	CV1020	220P ...	37	CV1081	4052A ...	—
CV928	13-4 ...	—	CV1021	210LP ...	—	CV1082	220TH ...	37

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CVI083	210VPT	37	CVII49	BT4I ...	—	CVI222	ACT6	—
CVI087	I4L ...	—	CVII51	PM3 ...	95	CVI223	DET5 Appendix III	—
CVI088	832 ...	—	CVII52	PM4DX ...	95	CVI235	DET12	—
CVI089	TVO3-10A ...	108	CVII53	PM254 ...	95		(SPECIAL) ...	—
CVI090	EI046	—	CVII54	PM4DX ...	95	CVI237	PM24D	95
CVI091	EF50 ...	74	CVII55	DEQ Appendix III	—	CVI238	PM24D	95
CVI092	EA50 ...	71	CVII56	DEQ ...	—	CVI240	PZI-35	—
CVI095	954 ...	—	CVII58	PM14 ...	95	CVI246	PM202	95
CVI096	5B/502A ...	—	CVII59	PM14 ...	95	CVI250	4279A	—
CVI097	ECR60 ...	—	CVII60	I04V ...	36	CVI252	42I2E	—
CVI098	E960T ...	—	CVII61	I04V ...	36	CVI253	EI I61	—
CVI099	X66 ...	119	CVII63	PD220A ...	93	CVI255	EI I89	—
CVI100	KTW62 ...	86	CVII64	ACSG ...	54	CVI256	EI232	—
CVI101	MHL6 ...	88	CVII65	VMS4... ...	115	CVI257	EI155	—
CVI102	BL63 ...	59	CVII66	P220 ...	92	CVI259	ESU450	—
CVI103	Y63 Appendix I	—	CVII67	PM24A ...	95	CVI260	ESU208	—
CVI104	PT15 ...	97	CVII68	PX4 ...	97	CVI261	RX3-120	—
CVI105	ML6 ...	88	CVII69	VMP4G ...	115	CVI262	GUI ...	—
CVI106	9D2 ...	23	CVII70	D4I ...	62	CVI263	RGI-125	—
CVI107	ISD2 ...	28	CVII71	AT4 ...	—	CVI264	U18 ...	108
CVI108	8D2 ...	22	CVII72	VMP4G ...	115	CVI265	U15 ...	108
CVI109	4DI ...	7	CVII73	354V ...	39	CVI266	U15 ...	108
CVI110	S130 ...	—	CVII74	KT42 ...	86	CVI267	U4020	110
CVI111	V1907 ...	114	CVII75	AP4 ...	—	CVI268	5Y3 ...	10
CVI112	V1026 ...	—	CVII76	AP4 ...	—	CVI279	MU2 ...	89
CVI113	U17 ...	108	CVII77	4DI ...	7	CVI280	6L7 ...	18
CVI114	E1024 ...	—	CVII78	DA30... ...	62	CVI281	KTW61	86
CVI116	V872 ...	114	CVII79	ML4 ...	88	CVI282	MSP4	89
CVI117	4IMTL ...	33	CVII80	244V ...	37	CVI283	SP4 ...	104
CVI118	KT2 ...	85	CVII81	KT4I ...	86	CVI284	MS/Pen	89
CVI119	DDL4 ...	64	CVII82	H42 ...	80	CVI285	6N7 ...	18
CVI120	SU2150A ...	105	CVII83	W42 ...	117	CVI286	6L6 ...	18
CVI121	T4I ...	105	CVII84	A373 ...	—	CVI287	KT32	85
CVI122	4IMXP ...	33	CVII86	6F6 ...	17	CVI288	244V ...	37
CVI123	EF8 ...	74	CVII87	D4I ...	62	CVI289	I56I ...	—
CVI124	MS/Pen	89	CVII88	N43 ...	90	CVI290	SU2150A	105
CVI125	MS/PenB	89	CVII89	AC6Pen	53	CVI291	HVR2	83
CVI126	4SH ...	—	CVII90	ACP4... ...	54	CVI296	MUI4	89
CVI127	Pen46	94	CVII91	KTZ4I ...	86	CVI300	I0DI ...	23
CVI128	GTIC ...	80	CVII92	Z62 ...	121	CVI301	6H6 ...	17
CVI129	MS/Pen	89	CVII93	X65 ...	119	CVI302	D42 ...	63
CVI130	HL23 ...	81	CVII94	20AI ...	29	CVI303	PMIHF	95
CVI131	4IDS ...	—	CVII95	KTW63 ...	86	CVI304	LP2	—
CVI133	V960 ...	114	CVII96	AC5PenDD	53		(selected)	87
CVI134	HVR2 ...	83	CVII97	EC53 ...	72	CVI305	4DI ...	7
CVI135	EI148 ...	70	CVII98	ACP4... ...	54	CVI306	HL23DD	81
CVI136	EF54 ...	75	CVI200	202 ...	—	CVI307	PMILF	95
CVI137	EC52 ...	72	CVI201	4317 ...	—	CVI308	TDD2A	106
CVI138	E4412/B/9 ...	—	CVI202	304 ...	—	CVI309	4019B	43
CVI140	I2MD6 ...	—	CVI205	E1007 ...	—	CVI310	KCI ...	84
CVI141	DPQ ...	—	CVI206	D060 ...	—	CVI311	B406 ...	58
CVI142	MR75 ...	—	CVI207	ES450 ...	—	CVI312	220RC	—
CVI143	GTIA ...	—	CVI208	PM256 ...	95	CVI313	220LF	—
CVI144	BT19 ...	—	CVI219	MZI-100 ...	—	CVI314	DLS10	—
CVI145	BT9/A ...	—	CVI220	4033L ...	43	CVI316	4021B	43
CVI147	BT35 ...	—	CVI221	PZI-75 ...	—	CVI317	5625	—
CVI148	EI289 ...	—				CVI318	VS24 ...	116

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CVI319	PM12V ...	95	CVI386	ACR3 ...	—	CVI452	4300A ...	—
CVI320	SP2 ...	104	CVI387	ACR4 ...	—	CVI453	4378 ...	—
CVI321	9D2 ...	23	CVI388	ACR5 ...	—	CVI454	225DU ...	37
CVI322	SP210 ...	104	CVI389	ACR6 ...	—	CVI455	411U ...	—
CVI323	VP2 ...	115	CVI391	E4504/E/16 ...	—	CVI456	Pen383 ...	94
CVI324	SP4 ...	104	CVI393	ACR17 ...	—	CVI457	VP133 ...	116
CVI325	42MPT ...	33	CVI394	ACR18 ...	—	CVI458	4IMP ...	32
CVI326	AC4Pen ...	53	CVI397	E4504/M/16 ...	—	CVI459	MU2 ...	89
CVI327	Pen1340 ...	94	CVI400	CIC ...	—	CVI460	X41 ...	119
CVI328	7D8 ...	21	CVI401	CL33 ...	61	CVI461	U22 ...	108
CVI329	PenA4 ...	94	CVI402	CY31 ...	61	CVI462	A915 ...	—
CVI330	TSP4 ...	107	CVI403	DD41 ...	—	CVI463	CBL31 ...	60
CVI331	VP23 ...	116	CVI404	EF36 ...	74	CVI464	EF39 ...	74
CVI332	VP21 ...	116	CVI405	E1199 ...	—	CVI466	P57 ...	—
CVI333	220IPT ...	—	CVI406	HL41 ...	81	CVI467	PY3-600 ...	—
CVI334	KT24 ...	85	CVI407	Pen45 ...	94	CVI468	SP4 ...	104
CVI335	SP41 ...	104	CVI408	P41 ...	92	CVI469	Z22 ...	—
CVI336	SP42 ...	104	CVI409	SP2 ...	104	CVI470	3P/270B ...	—
CVI337	116/Pen ...	36	CVI410	TH2 ...	106	CVI471	4049A ...	—
CVI338	220VPT ...	—	CVI411	TH41 ...	107	CVI472	CMG25 ...	—
CVI340	KT45 ...	86	CVI412	TV4 ...	174	CVI473	CMG25 ...	—
CVI341	MSP4 ...	89	CVI413	UU6 ...	112	CVI474	CE20 ...	—
CVI342	QP25 ...	98	CVI414	VP41 ...	116	CVI475	M501 ...	—
CVI343	KTZ73 ...	86	CVI415	4011A ...	—	CVI476	M507 ...	—
CVI344	TP22 ...	107	CVI418	10DI ...	23	CVI477	M507 ...	—
CVI345	TP25 ...	107	CVI419	11D3 ...	23	CVI478	M501 ...	—
CVI347	ECH35 ...	73	CVI420	4078A ...	—	CVI479	M501 ...	—
CVI349	RG5-500 ...	—	CVI422	3D/10A ...	—	CVI480	M501 ...	—
CVI350	TB3/750 ...	—	CVI423	9D2 ...	23	CVI481	M501 ...	—
CVI351	TB4/1250 ...	—	CVI424	20A1 ...	29	CVI482	M501 ...	—
CVI352	EM80 Appendix I	—	CVI425	7D5 ...	21	CVI483	M519 ...	—
CVI353	0A81 ...	—	CVI426	EK2 ...	76	CVI484	M519 ...	—
CVI354	0A85 ...	—	CVI427	EF9 ...	74	CVI485	M519 ...	—
CVI355	ESU300 ...	—	CVI428	EBC3 ...	71	CVI486	M519 ...	—
CVI356	U22 ...	108	CVI429	EL2 ...	76	CVI495	M528 ...	—
CVI359	ME41 ...	88	CVI430	ACSP3 ...	54	CVI496	M528 ...	—
CVI361	MZ05-20 ...	89	CVI431	ACT16 ...	—	CVI497	M528 ...	—
CVI363	DET16 ...	—	CVI432	CMG8 ...	—	CVI498	M528 ...	—
CVI364	807 ...	40	CVI433	EC31 ...	72	CVI499	M528 ...	—
CVI365	4282B ...	—	CVI434	EM4 Appendix I	—	CVI500	M528 ...	—
CVI366	V248A ...	113	CVI435	GU2 ...	—	CVI501	E1192 ...	70
CVI367	V245 ...	113	CVI436	HL2 ...	81	CVI502	KT32 ...	85
CVI368	V266 ...	—	CVI437	E1143 ...	—	CVI503	KT33C ...	85
CVI369	4061A ...	44	CVI438	KT61 ...	86	CVI504	V1901 ...	—
CVI370	PVI-35 ...	97	CVI439	MT9F ...	—	CVI505	MH41 ...	88
CVI371	PZ1-35 ...	—	CVI440	MT9L ...	—	CVI506	ESP450 ...	—
CVI372	4069A ...	—	CVI441	MT12A ...	—	CVI508	V1913	Appendix III
CVI373	PY3-600 ...	—	CVI442	MT14 ...	—	CVI510	E1242 ...	70
CVI374	807 ...	40	CVI443	R1 ...	99	CVI517	E4504/C/16 ...	—
CVI375	EF85 ...	75	CVI444	42SPPT ...	33	CVI518	09D ...	—
CVI376	EF80 ...	75	CVI445	4012A ...	—	CVI521	E4412/M/9 ...	—
CVI377	GZ34 ...	80	CVI446	4107B ...	—	CVI522	E4013-B4 ...	—
CVI379	20K ...	—	CVI447	4030D ...	—	CVI525	E4205/C/7 ...	—
CVI380	20K ...	—	CVI448	4043C ...	—	CVI526	3EGI ...	—
CVI382	ACR10 ...	—	CVI449	4064B ...	—	CVI527	VLS492AG ...	—
CVI384	41DS ...	—	CVI450	4227A ...	—	CVI528	CVI534 ...	—
CVI385	E4504/B/16 ...	—	CVI451	4274A ...	4			

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CVI529	E44I2/E/9	...	CVI608	U4	...	CVI671	4021A	43
CVI530	6LYI	...	CVI609	SW7	...	CVI672	PEN36C	94
CVI534	CVI528	...	CVI610	MT4	...	CVI673	PM2HL	95
CVI535	EZ80	78	CVI611	MR4	89	CVI674	AC/S2Pen	54
CVI536	I608ABA	...	CVI612	VT9B	...	CVI675	N43	90
CVI537	3ACP2	...	CVI614	ES1500A	...	CVI676	LS8A	87
CVI538	5J32	...	CVI615	ESU1500	...	CVI677	ACS2	...
CVI539	D.15	...	VI618	ES250M	...	CVI678	HLA2	82
CVI540	33B/I52M	32	CVI619	42I2E	...	CVI679	DA30...	62
CVI543	I2MD6	...	CVI620	DET6	...	CVI680	PM202	95
CVI550	VTIA...	...	CVI621	ESVW501	...	CVI681	TSP4	107
CVI551	VTIC...	...	CVI622	4052A	...	CVI683	MKT4	88
CVI552	VX3B	...	CVI623	RGL250	...	CVI684	APP4C	56
CVI553	ESU450X	...	CVI625	RG3-250	...	CVI685	APP4C	56
CVI554	VT5B	...	CVI626	RG1-240A	...	CVI686	D418	62
CVI555	VU6A	...	CVI627	5D/I00A	...	CVI687	D418	62
CVI557	VT9B	...	CVI628	GU8	...	CVI688	4033L	43
CVI558	VT10D	...	CVI629	RG3-I250A...	...	CVI689	PAI	93
CVI559	VR12C	...	CVI630	ESP450	...	CVI690	9AI	23
CVI560	VR12F	...	CVI632	IN82	...	CVI691	DDL4	64
CVI561	VT13B	...	CVI633	3V4	7	CVI692	AC/P	54
CVI562	VT13C	...	CVI634	XB2	...	CVI694	3A/I44A	...
CVI563	VR14A	...	CVI635	5A/I63K	9	CVI695	DH30	65
CVI564	Vul6A	...	CVI636	LS5	...	CVI696	B2I	57
CVI565	230XP	37	CVI637	LS5	...	CVI697	X4I	119
CVI566	VR24B	...	CVI638	4I01D	...	CVI698	A8I9	53
CVI567	2C25	4	CVI639	4I01E	...	CVI699	SP4I	104
CVI568	4062A	...	CVI640	4002D	...	CVI700	SP4I	104
CVI569	R3	99	CVI641	4I02E	...	CVI701	XL0	...
CVI570	EK32	76	CVI642	DER	...	CVI702	XP	121
CVI571	VT58A	...	CVI643	EI32	...	CVI703	XW	...
CVI572	807	40	CVI644	EI532	...	CVI704	57	34
CVI573	4074B	...	CVI645	EI33	...	CVI705	58	34
CVI574	SP4I	104	CVI646	EI453	...	CVI706	2B7	4
CVI575	VU71A	...	CVI647	LS5B	...	CVI707	2A5	4
CVI576	KT38	...	CVI648	4205E	...	CVI708	80	35
CVI577	E1I43	...	CVI649	6C5	15	CVI709	6D6	16
CVI578	EF50	74	CVI650	LS5A	...	CVI710	6C6	15
CVI579	954	...	CVI651	G455B	...	CVI711	6B7	13
CVI581	ECH35	73	CVI652	P220A	92	CVI712	42	33
CVI582	SI30	...	CVI653	KCI	84	CVI713	EF8	74
CVI584	— Appendix III	...	CVI655	4019B	43	CVI714	EF9	74
CVI585	T4I	105	CVI656	LS8	87	CVI715	EBC3	71
CVI586	HL23	81	CVI657	4020B	43	CVI716	EI54I	...
CVI587	ECR35	...	CVI658	LS9B	87	CVI717	4307A	...
CVI588	ECR30	...	CVI659	4022B	...	CVI718	ACTP	55
CVI592	E4504/C/I6	...	CVI660	LS7	87	CVI719	U22	108
CVI596	09I	...	CVI661	DL	66	CVI720	XL1.5	121
CVI597	E4I03/B/4	...	CVI662	P2I5	92	CVI721	XPI.5	121
CVI600	CATI	...	CVI663	4021B	43	CVI722	A90I	53
CVI601	CARI	...	CVI664	B406	58	CVI723	V257	...
CVI602	CAR4	...	CVI665	DH	65	CVI724	5A/I02D	8
CVI603	4I04A	...	CVI666	P6I0	...	CVI726	5A/I05A	...
CVI604	SSI97I	...	CVI667	LS8A	87	CVI727	Z22	...
CVI605	40I3C	...	CVI668	4033L	43	CVI728	WE262B	...
CVI606	CAT2	...	CVI669	P625	...	CVI731	SI30	...
CVI607	OC2.5	...	CVI670	HLI320	82	CVI732	ML4	88

Service Type	Commercial Equivalent	Page
CVI733	4108AG	...
CVI734	3Q/213E	...
CVI735	DC2P	63
CVI737	MW6-2	...
CVI738	RS161	...
CVI739	GCI0/4B	...
CVI740	GS12C	...
CVI741	EL34	76
CVI742	BK44	...
CVI743	BS64	...
CVI744	15L01A	...
CVI745	62BT	34
CVI746	30CI2PI	...
CVI747	M505	...
CVI748	TTR31MC	...
CVI749	205D	36
CVI750	33A/100A	32
CVI751	34	32
CVI752	35	32
CVI753	35A5	32
CVI754	35TG	...
CVI755	1626	42
CVI756	1629	...
CVI757	900I	50
CVI758	1L4	2
CVI759	2C26A	4
CVI760	2J26	...
CVI761	3FP7	...
CVI762	6AK6	11
CVI763	6J4	8
CVI764	CE2	...
CVI765	5664	...
CVI766	CX25	...
CVI768	7076	...
CVI769	2A6	4
CVI770	7A4	21
CVI771	39/44	32 & 33
CVI772	47	33
CVI773	82	35
CVI774	112A/12A	36 & 24
CVI775	36	32
CVI776	6D7	16
CVI777	7C7	21
CVI778	101D	...
CVI779	102D	...
CVI780	30TWIN	...
CVI781	310B	38
CVI782	340A	...
CVI783	9JP1	...
CVI784	6AK7	11
CVI785	1N26	...
CVI786	3K33	...
CVI787	4C35	...
CVI788	3J31	...
CVI789	5FP14	...
CVI790	7Z4	22
CVI791	5LPI	...

Service Type	Commercial Equivalent	Page
CVI792	1960	...
CVI793	724B	...
CVI794	959	...
CVI795	723A/B	...
CVI796	DW4	68
CVI797	4081A	...
CVI798	2051	43
CVI799	350B	39
CVI800	1A7	1
CVI801	GS118	...
CVI802	1A7	1
CVI803	1C5	1
CVI805	DL35	66
CVI806	1D5	2
CVI807	2J31	...
CVI808	2J32	...
CVI809	2J33	...
CVI810	3J34	...
CVI811	1D8	2
CVI812	1E7	2
CVI813	2DPI	...
CVI814	5LPI	...
CVI815	6Q5	...
CVI816	6Y3	20
CVI817	1G4	2
CVI818	1H5	2
CVI819	6P5	18
CVI820	1H5	2
CVI821	1N5	3
CVI822	2J48	...
CVI823	1N5	3
CVI824	1Q5	3
CVI825	KT45	86
CVI826	1Q5	3
CVI827	M510	...
CVI828	M512	...
CVI829	1T5	3
CVI830	1B3	1
CVI831	2A3	4
CVI832	0A2	...
CVI833	0B2	...
CVI834	2A5	4
CVI835	3B28	...
CVI836	4B26	...
CVI837	2B7	4
CVI838	QQZO4-15	99
CVI839	6F13	17
CVI841	BS52	...
CVI842	2G	...
CVI843	2Y2	5
CVI844	GS3/B	...
CVI846	5T4	10
CVI847	19H4	28
CVI848	20A2	...
CVI849	5W4	10
CVI850	6L19	18
CVI851	5X4	10

Service Type	Commercial Equivalent	Page
CVI852	5X4	10
CVI853	6P25	19
CVI854	5Y3	10
CVI855	UU9	113
CVI856	5Y3	10
CVI857	5Y4	10
CVI858	BS62	...
CVI859	BS4A	...
CVI860	30D5	...
CVI861	5Z3	10
CVI862	6AQ5	12
CVI863	5Z4	10
CVI864	5Z4	10
CVI865	6R4	19
CVI866	M503	...
CVI867	6A6	11
CVI868	5T01A	...
CVI869	12T01A	...
CVI870	6A7	11
CVI871	K307	...
CVI873	6AB7	11
CVI876	1852	4
CVI878	6AD7...	11
CVI879	HP410I	...
CVI880	7BM1A	...
CVI882	6AG7...	11
CVI883	4H/180E	...
CVI884	33A/158M	32
CVI885	6B5	...
CVI886	EC80	72
CVI887	6B6	13
CVI888	EC81	72
CVI889	TSY4-500	...
CVI891	6B7	13
CVI892	2K28	...
CVI893	6B8	13
CVI894	6B8	13
CVI895	STV/70/60	...
CVI896	6C8	15
CVI897	4J34	...
CVI898	4J35	...
CVI899	6L18	18
CVI900	6D6	16
CVI901	6F11	17
CVI902	6D8	16
CVI903	592	...
CVI904	CAA322	...
CVI905	4-65A	...
CVI906	6E5	...
CVI907	CS2-C	...
CVI908	6F5	17
CVI909	6F5	17
CVI910	6F5	17
CVI911	6F6	17
CVI912	6F6	17
CVI913	GS44X	...
CVI914	4J31	...

Service Type	Commercial Equivalent	Page
CV1915	6F7 ...	17
CV1916	4J33 ...	—
CV1917	6F8 ...	17
CV1918	6F8 ...	17
CV1919	6F4 ...	—
CV1920	6LD20 ...	18
CV1921	U24 ...	108
CV1924	TY2-125 ...	—
CV1926	6G6 ...	17
CV1927	BI42 ...	—
CV1928	I2BA6 ...	25
CV1929	6H6 ...	17
CV1930	6H6 ...	17
CV1931	6H6 ...	17
CV1932	6J5 ...	18
CV1933	6J5 ...	18
CV1934	6J5 ...	18
CV1935	6J7 ...	18
CV1936	6J7 ...	18
CV1937	6J7 ...	18
CV1938	6K6 ...	18
CV1939	37X50 ...	—
CV1940	6K6 ...	18
CV1941	6K7 ...	18
CV1942	6K7 ...	18
CV1943	6K7 ...	18
CV1944	6K8 ...	18
CV1945	6K8 ...	18
CV1946	6K8 ...	18
CV1947	6L6 ...	18
CV1948	6L6 ...	18
CV1949	6D4 ...	—
CV1950	6L7 ...	18
CV1951	6L7 ...	18
CV1953	6N6 ...	—
CV1954	6N6 ...	—
CV1955	EF9I ...	75
CV1956	6N7 ...	18
CV1957	6N7 ...	18
CV1958	6N7 ...	18
CV1959	50C5 ...	33
CV1960	6R6 ...	19
CV1961	I2AU6 ...	24
CV1962	6R7 ...	19
CV1963	6R7 ...	19
CV1964	6R7 ...	19
CV1966	6SA7 ...	19
CV1967	6SA7 ...	19
CV1968	CWS24A ...	—
CV1969	6SC7 ...	19
CV1970	6SC7 ...	19
CV1971	IT4 ...	3
CV1972	6SF5 ...	19
CV1973	6SF5 ...	19
CV1974	6S7 ...	19
CV1975	6S7 ...	19
CV1976	MV6-5 ...	—

Service Type	Commercial Equivalent	Page
CV1977	UL4I ...	112
CV1978	6SG7 ...	19
CV1979	6IBT ...	34
CV1980	I85BT ...	36
CV1981	6SK7 ...	19
CV1982	6SK7 ...	19
CV1984	6SC7 ...	19
CV1985	6SL7 ...	19
CV1986	6SN7 ...	19
CV1988	6SN7 ...	19
CV1989	SD6 ...	103
CV1990	6SQ7 ...	19
CV1991	6SQ7 ...	19
CV1992	I267 ...	—
CV1993	6SS7 ...	19
CV1995	6ST7 ...	19
CV1996	6ST7 ...	19
CV1999	IV ...	3
CV2000	—	Appendix III
CV2001	—	...
CV2002	—	...
CV2003	—	...
CV2004	—	...
CV2005	—	...
CV2006	EF55 ...	75
CV2007	—	...
CV2008	—	Appendix III
CV2009	—	Appendix III
CV2010	—	Appendix III
CV2011	—	Appendix III
CV2013	—	Appendix III
CV2014	—	Appendix III
CV2015	—	... 64
CV2016	—	Appendix III
CV2020	—	Appendix III
CV2021	—	Appendix III
CV2022	—	Appendix III
CV2023	CV13I ...	—
CV2024	—	Appendix III
CV2025	—	Appendix III
CV2026	CV454 ...	—
CV2029	G180/2G ...	—
CV2101	—	Appendix III
CV2102	DL75 ...	66
CV2103	DF73 ...	65
CV2104	DAF70 ...	62
CV2105	DF70 ...	65
CV2106	DL66 ...	66
CV2107	DF66 ...	65
CV2108	9M06A ...	—
CV2110	E2004 ...	71
CV2115	U4I ...	109
CV2124	BK24 ...	—
CV2125	BD78 ...	—
CV2126	3V/42DB ...	—
CV2127	6CH6... ...	15

Service Type	Commercial Equivalent	Page
CV2128	6AJ8 ...	11
CV2129	5763 ...	45
CV2130	TT16 ...	—
CV2131	5022 ...	—
CV2132	90AV ...	—
CV2133	90CG ...	—
CV2134	90CV ...	—
CV2135	8D5 ...	23
CV2136	6BW6 ...	14
CV2137	E4504/M/16 ...	—
CV2138	GM4 ...	—
CV2139	EHM2 ...	—
CV2140	B6 ...	—
CV2141	B6E ...	—
CV2142	B12E ...	—
CV2143	B24 ...	57
CV2144	B24E ...	—
CV2145	M6 ...	—
CV2146	DM6 ...	—
CV2147	G24H ...	—
CV2148	GM5B ...	—
CV2149	GM1B ...	—
CV2150	MX103 ...	—
CV2151	MX105 ...	—
CV2152	MX107 ...	—
CV2153	MX108 ...	—
CV2154	SIM2 ...	—
CV2155	SIM5 ...	—
CV2156	—	Appendix III
CV2159	BR153 ...	—
CV2160	ESU77 ...	—
CV2161	K30I ...	—
CV2162	I2L01A ...	—
CV2164	K302 ...	—
CV2166	4J50 ...	—
CV2171	A2087 ...	53
CV2173	G10H ...	—
CV2174	G240/2D ...	—
CV2175	DG7-5 ...	—
CV2179	A2134 ...	71
CV2180	I9H4 ...	28
CV2181	BS104 ...	—
CV2183	X66I ...	—
CV2185	88D ...	—
CV2187	Z239/IG ...	—
CV2188	W7/2D ...	—
CV2189	V240C/2K ...	—
CV2190	V233A/1K ...	—
CV2191	DG13-2 ...	—
CV2192	9MW5AX ...	—
CV2193	89D ...	—
CV2194	G400/1K ...	—
CV2195	EF9I ...	75
CV2199	GC10A ...	—
CV2201	E2043 ...	—
CV2202	XE2 ...	—
CV2203	GHTI ...	—

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV2204	TD03-I0F		CV2279	4 matched		CV2369	AA76	...
	Appendix III			GEX36	—	CV2370	3S4 ...	7
CV2205	E4103/E/34 ...	—	CV228i	M537 ...	—	CV2371	DF61 ...	65
CV2207	— Appendix III		CV2282	K308 ...	—	CV2372	MF22-75	...
CV2208	G50/IG ...	—	CV2283	VX7069 ...	—	CV2373	M502A	...
CV2209	6F33 (Special)	17	CV2284	4J50 ...	—	CV2374	GD60	...
CV2210	5544 ...	—	CV2286	E4412/E/9	—	CV2375	GD100	...
CV2211	CV389	...		with side		CV2376	M521	...
CV2212	I3D3 ...	27		contacts		CV2382	EL822	77
CV2213	NT2 ...	—	CV2287	G10H ...	—	CV2383	BR191	...
CV2214	3B/240M ...	6	CV2288	DL66 ...	66	CV2384	ZS10C	...
CV2215	5545 ...	—	CV2289	U37 ...	109	CV2389	CXTI	...
CV2216	30E8/PI ...	—	CV2290	GEX36	—	CV2390	{ 3A4 ...	5
CV2217	6K25 ...	18	CV2291	1909A	—		DL93	66
CV2218	6157 ...	48	CV2293	XB-I ...	—	CV2393	BA9-20	...
CV2220	5B/257M ...	9	CV2295	3E29 ...	—	CV2394	DA42	62
CV2221	V235A-IK ...	—	CV2296	NSP2	—	CV2399	{ RR3-1250A	—
CV2223	G10/241/K ...	—	CV2299	DL73 ...	66		2G/473 C	—
CV2224	GI/371K ...	—	CV2300	3A4 ...	5	CV2400	CXT2	...
CV2225	I50B2 ...	—	CV2301	E4412/C/9 ...	—	CV2412	M253	...
CV2226	CV2355 to		CV2302	I CPI ...	—	CV2413	SX642	...
	CV2357 ...	—	CV2304	K324 ...	—	CV2414	XC305/I	...
CV2229	M502A ...	—	CV2306	BSI22	—	CV2416	C1133	...
CV2231	E2266 Appendix III		CV2307	BSI20	—	CV2418	GHT2	...
CV2232	DDX52 ...	—	CV2308	BSI16	—	\ 2420	JPT9-01	...
CV2233	G5H ...	—	CV2309	BSI18	—	CV2421	JPT9-02	...
CV2234	X662 ...	—	CV2310	GEX64	—	CV2424	M549	...
CV2235	EY84 ...	77	CV2314	MP31-55	—	CV2425	M539	...
CV2236	Z800U ...	—	CV2315	C12B	—	CV2426	M529	...
CV2237	IAD4... ..	1	CV2316	6260B	—	CV2428	25110	...
CV2238	5672 ...	45	CV2317	6260C	—	CV2431	DG7-32	...
CV2239	5676 ...	45	CV2321	GD86W/S	—	CV2432	6025 ...	—
CV2240	3B4 ...	6	CV2322	BR161	—	CV2433	DF63 ...	—
CV2241	DY70	—	CV2323	BR179	—	CV2434	{ Z803U	—
CV2243	— Appendix III		CV2324	CRI76	—		6779 ...	—
CV2245	3J/160E ...	—	CV2325	{ Z502S	—	CV2448	CV7182	...
CV2247	G5H ...	—		GS10C/S	—	CV2449	7182	...
CV2253	ME1501	—	CV2328	MF31-95	—	CV2450	7182	...
CV2254	5678 ...	45	CV2329	4004B	—	CV2451	7182	—
CV2255	Z801U	—	CV2331	DL64	66	CV2452	7182	—
CV2256	X662 ...	—	CV2338	F2 ...	—	CV2486	XC18	...
CV2257	UDI66C	—	CV2343	K335 ...	—	CV2500	35Z4 ...	3
CV2258	C43B	—	CV2347	5B/258M	—	CV2501	40 ...	32
CV2259	DL68	66	CV2348	5886 ...	—	CV2502	41FP ...	32
CV2260	DF64 ...	65	CV2349	EN30	—	CV2503	41MH	32
CV2263	K305 ...	—	CV2352	DG16-21	—	CV2504	41MHL	32
CV2266	CC3L...	—	CV2353	R61010	—	CV2505	41MPG	32
CV2267	— Appendix III		CV2354	R6015	—	CV2506	41MPT	32
CV2268	— Appendix III		CV2358	W7/ID	—	CV2507	IU4 ...	3
CV2269	ME1401	—	CV2360	5A6 ...	8	CV2508	41STH	33
CV2270	90AG...	—	CV2361	DL69	66	CV2509	41FP ...	32
CV2271	GCI0B	—	CV2362	M525	—	CV2510	I Z2 ...	4
CV2273	K312 ...	—	CV2363	M525	—	CV2511	420T ...	33
CV2274	BS114	—	CV2364	M525	—	CV2512	420TDD	33
CV2275	DC70...	63	CV2365	M525	—	CV2514	43 ...	33
CV2276	Z319 ...	122	CV2367	M525	—	CV2516	2C39a	—
CV2277	I3EI Appendix III		CV2368	M525	—	CV2517	2E 30 ...	...

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV2518	4B32 ...	—	CV2578	5687 ...	45	CV2639	394A ...	—
CV2519	4X1S0A ...	—	CV2579	218 ...	—	CV2640	40SBU ...	39
CV2520	SC22 ...	—	CV2580	220C ...	—	CV2642	417A ...	—
CV2521	6AH6 ...	11	CV2581	2200T ...	37	CV2643	2C40 ...	—
CV2522	6AS6 ...	12	CV2582	220VS ...	37	CV2644	460BU ...	40
CV2523	6AS7G ...	12	CV2584	231D ...	37	CV2645	RI ...	99
CV2524	6AU6 ...	12	CV2585	39 ...	32	CV2647	532 ...	—
CV2525	6AV6 ...	12	CV2586	240B ...	37	CV2648	632A ...	—
CV2526	6AV6 ...	12	CV2587	242C ...	—	CV2650	12AY7 ...	24
CV2527	6BA7 ...	13	CV2588	244A ...	—	CV2651	707B ...	—
CV2528	45DS ...	—	CV2589	2S0TH ...	—	CV2652	709A ...	—
CV2529	45IU ...	33	CV2591	100TH ...	—	CV2653	714A ...	—
CV2530	45ZS ...	33	CV2592	256B ...	—	CV2654	715A ...	—
CV2531	46 ...	33	CV2593	257A ...	38	CV2655	71SB ...	—
CV2532	49 ...	33	CV2594	258B ...	—	CV2656	724A ...	—
CV2533	50 ...	33	CV2595	259A ...	38	CV2657	800 ...	—
CV2534	50L6 ...	34	CV2597	262A ...	38	CV2658	806 ...	—
CV2535	52 ...	34	CV2598	264A ...	—	CV2659	3D21A ...	—
CV2536	53A ...	—	CV2599	264C ...	38	CV2660	809 ...	—
CV2537	55 ...	34	CV2600	267B ...	—	CV2661	812 ...	—
CV2538	59 ...	34	CV2601	271A ...	38	CV2662	5639 ...	44
CV2539	61P ...	—	CV2602	272A ...	38	CV2663	815 ...	—
CV2540	63D ...	—	CV2603	274A ...	38	CV2664	822 ...	—
CV2541	71A ...	35	CV2604	27SA ...	38	CV2665	825 ...	40
CV2542	72 ...	35	CV2605	282A ...	—	CV2666	829B ...	—
CV2543	73 ...	35	CV2606	284 ...	—	CV2668	846 ...	—
CV2544	78 ...	35	CV2607	284D ...	—	CV2669	849 ...	—
CV2545	79 ...	35	CV2608	300A ...	—	CV2670	849H ...	—
CV2546	81 ...	35	CV2609	330A ...	—	CV2671	851 ...	—
CV2547	83V ...	35	CV2610	3030 ...	—	CV2672	852 ...	—
CV2548	84 ...	35	CV2611	04TH ...	—	CV2673	852 ...	—
CV2549	85 ...	35	CV2612	307A ...	—	CV2674	863 ...	—
CV2550	100T ...	—	CV2613	310A ...	38	CV2675	864 ...	41
CV2551	100TH ...	—	CV2614	311A ...	38	CV2676	865 ...	—
CV2552	100TH ...	—	CV2615	313C ...	—	CV2678	5799 ...	—
CV2553	101F ...	—	CV2616	314A ...	—	CV2679	866Jr ...	—
CV2554	111A ...	—	CV2617	323A ...	—	CV2680	868 ...	—
CV2556	117L7 ...	36	CV2618	327A ...	—	CV2683	878 ...	—
CV2557	117N7 ...	—	CV2619	328A ...	38	CV2685	880 ...	—
CV2558	117Z6 ...	36	CV2620	329A ...	38	CV2686	889 ...	—
CV2560	2151 ...	—	CV2621	330B ...	—	CV2687	889R ...	—
CV2561	122A ...	—	CV2622	331A ...	—	CV2688	891R ...	—
CV2562	164V ...	36	CV2623	332A ...	—	CV2689	893R ...	—
CV2563	204A ...	—	CV2624	337A ...	38	CV2690	904V ...	41
CV2565	2050 ...	—	CV2625	338A ...	—	CV2691	913 ...	—
CV2566	205E ...	36	CV2626	346A ...	—	CV2692	981 ...	—
CV2567	205F ...	36	CV2627	349A ...	38	CV2693	10KP7 ...	—
CV2569	210DET ...	37	CV2628	349B ...	—	CV2694	930 ...	—
CV2570	210HF ...	37	CV2629	350A ...	—	CV2695	931 ...	—
CV2571	210HL ...	37	CV2630	351A ...	39	CV2696	931A ...	—
CV2572	450TH ...	—	CV2631	352A ...	39	CV2697	935 ...	—
CV2573	5651 ...	—	CV2632	354A ...	—	CV2698	5896 ...	46
CV2574	210VPA ...	37	CV2633	362A ...	39	CV2699	6088 ...	—
CV2575	5670 ...	45	CV2634	367 ...	—	CV2700	957 ...	—
CV2576	211SP ...	—	CV2636	375A ...	39	CV2701	958A ...	—
CV2577	26A7 ...	31	CV2637	388A ...	—	CV2704	7ES ...	21
			CV2638	393A ...	—	CV2705	1203 ...	41

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV2706	7C4 ...	21	CV2775	68506...	—	CV2841	ARPI2T	—
CV2707	1231 ...	41	CV2776	68510...	—	CV2842	6C4W	15
CV2709	1R4 ...	3	CV2777	4B28 ...	—	CV2843	6J6W...	18
CV2710	3D6 ...	6	CV2778	2J21A ...	—	CV2844	6X4W	20
CV2711	1500T ...	—	CV2779	4B36 ...	—	CV2845	LS5 ...	—
CV2712	1609 ...	42	CV2786	26J ...	—	CV2846	LS5B ...	—
CV2713	1610 ...	42	CV2788	NT13 ...	—	CV2847	5704 ...	—
CV2714	1614 ...	42	CV2789	9LP7 ...	—	CV2848	CK707 ...	—
CV2715	1630 ...	—	CV2790	C1K ...	—	CV2849	K105I ...	—
CV2716	6SC7 ...	19	CV2791	K332 ...	—	CV2850	AT200A ...	—
CV2717	1729 ...	—	CV2792	2K25 ...	—	CV2851	3D22 ...	—
CV2718	1876 ...	43	CV2793	2J50 ...	—	CV2852	2J56 ...	—
CV2719	1924 ...	—	CV2794	C10SS/2G ...	—	CV2953	RZ1-250 ...	—
CV2721	6CJ6 ...	15	CV2795	(1L4) ...	2	CV2854	6AN5 ...	12
CV2722	3025 ...	—	CV2796	6L6WGB ...	18	CV2855	6K4 ...	—
CV2723	869B ...	—	CV2797	5894A ...	—	CV2856	1N23B ...	—
CV2725	O9 ...	—	CV2798	QQV03-12 ...	99	CV2857	1N23BM ...	—
CV2726	6CK6 ...	16	CV2799	QQV03-20 ...	99	CV2858	3B24W ...	6
CV2727	26D ...	—	CV2800	A40 ...	51	CV2859	5846 ...	—
CV2728	29D ...	—	CV2801	A40/N3 ...	—	CV2860	AZI ...	56
CV2729	E80F ...	68	CV2803	2915 ...	—	CV2861	AZ2 ...	57
CV2730	5800 ...	—	CV2804	A915A ...	—	CV2862	AZ31 ...	57
CV2731	63DS ...	—	CV2805	A294 ...	—	CV2864	B2I ...	57
CV2733	3951 ...	—	CV2806	AC/2HL ...	53	CV2865	B30 ...	57
CV2734	4033A ...	—	CV2807	AC2HL ...	53	CV2866	2C51W ...	4
CV2735	4015A ...	—	CV2808	AC2Pen ...	53	CV2867	BU100/6 ...	—
CV2736	3C24 ...	—	CV2809	ACSPen ...	53	CV2868	C1A ...	—
CV2738	RG1-240 ...	—	CV2810	E4504/m/16 ...	—	CV2869	3JP7 ...	—
CV2739	CV293 ...	—	CV2811	AC/HL ...	54	CV2870	CC3D ...	—
CV2742	114 ...	36	CV2812	AC/HL ...	54	CV2871	CAT6 ...	—
CV2743	4033AF ...	—	CV2813	AC/HLDD ...	54	CV2872	CAT9 ...	—
CV2744	4J34 ...	—	CV2814	5D2I ...	—	CV2874	I005 ...	41
CV2745	4050AG ...	—	CV2815	ACP ...	54	CV2875	CL4 ...	61
CV2746	4064A ...	—	CV2816	3JP12 ...	—	CV2876	2D21W ...	—
CV2747	6U5G Appendix I	—	CV2817	6L6GA ...	18	CV2877	6AK5W ...	11
CV2748	5Z4GT ...	10	CV2818	AC/PT8 ...	—	CV2878	CRT1... ...	—
CV2749	408I ...	—	CV2819	AC/S ...	—	CV2879	CRT1... ...	—
CV2750	89J ...	—	CV2820	AC/SP1 ...	54	CV2880	CRT4/I ...	—
CV2751	4096AB ...	—	CV2821	ECC33 ...	72	CV2882	6AL5W ...	11
CV2752	4PR60A ...	—	CV2822	AC/SG ...	54	CV2883	6A05W ...	—
CV2753	5684 ...	—	CV2823	AC/SP3 ...	54	CV2884	6A56 ...	12
CV2754	5685 ...	—	CV2924	AC/SPen ...	—	CV2885	54NCPI I ...	—
CV2755	4251AX ...	—	CV2825	ACT6 ...	—	CV2886	M2H ...	—
CV2756	4260A ...	—	CV2826	1B63A ...	—	CV2887	DACI ...	62
CV2759	4304 ...	—	CV2827	ACT10 ...	—	CV2888	EL3I ...	76
CV2760	430B ...	—	CV2829	293A ...	38	CV2889	DD620 ...	64
CV2761	4304BB ...	—	CV2830	AC/THI ...	54	CV2890	DDT ...	64
CV2762	4316A ...	—	CV2831	2C5I ...	4	CV2891	DE5 ...	64
CV2764	4606 ...	—	CV2832	AC/VP2 ...	55	CV2892	DE5B ...	—
CV2765	4673 ...	44	CV2833	AF3 ...	55	CV2895	DET1SW ...	—
CV2766	4687 ...	—	CV2834	AGT1 ...	—	CV2896	52CG... ...	—
CV2767	4960 ...	—	CV2835	SR4WGY ...	10	CV2897	7MBIA ...	—
CV2768	8003 ...	—	CV2836	APP4G ...	56	CV2898	DET8 ...	—
CV2769	9006 ...	50	CV2837	APP4G ...	56	CV2899	DET10 ...	—
CV2770	13077... ...	—	CV2838	— Appendix III	—	CV2900	DET10 ...	—
CV2772	23043... ...	—	CV2839	AR300 ...	—	CV2901	EF86 ...	75
CV2773	68503... ...	—	CV2840	5UP7 ...	—	CV2903	OA2 ...	—
CV2774	68504... ...	—						

Service Type	Commercial Equivalent	Page
CV2905	3J/170E ...	—
CV2907	DFI ...	65
CV2908	3J/260E ...	—
CV2909	DH73 ...	65
CV2910	DK1 ...	66
CV2911	DL2 ...	66
CV2912	DL63 ...	66
CV2913	DLS1 ...	—
CV2914	IB40 ...	—
CV2916	IN25 ...	—
CV2918	IN28 ...	—
CV2919	IN43 ...	—
CV2920	E1148 ...	70
CV2923	IN69 ...	—
CV2924	IN70 ...	—
CV2925	EBF2 ...	72
CV2926	EBL31 ...	72
CV2927	EC50 ...	—
CV2928	IN81 ...	—
CV2929	ECH3 ...	73
CV2930	ECH33 ...	73
CV2931	2B22 ...	4
CV2932	2C42 ...	—
CV2933	2C46 ...	—
CV2934	3BPIA ...	—
CV2935	5JPI ...	—
CV2936	4B22 ...	—
CV2937	6A05 ...	—
CV2938	EL33 ...	76
CV2939	6F4 ...	—
CV2940	EL36 ...	76
CV2941	EL50 ...	—
CV2942	EMI Appendix I	—
CV2943	ESU76 ...	—
CV2944	ESU1500 ...	—
CV2945	ESU75 ...	—
CV2946	ESU150 ...	—
CV2947	ESU300 ...	—
CV2948	ESU450 ...	—
CV2949	FI23A ...	—
CV2950	I29B ...	—
CV2952	FA13 ...	—
CV2953	FA14 ...	—
CV2954	FC2A ...	78
CV2955	FC4 ...	78
CV2956	FC13C ...	79
CV2957	FG17 ...	—
CV2958	FG278 ...	—
CV2959	3B21 ...	6
CV2960	FP54 ...	—
CV2961	IN54A ...	—
CV2962	IN38A ...	—
CV2963	4D21 ...	—
CV2964	5D22 ...	—
CV2965	RL7076-2A ...	—
CV2966	EY86 ...	77
CV2967	8020 ...	50

Service Type	Commercial Equivalent	Page
CV2968	7F8 ...	21
CV2969	GT1 ...	—
CV2970	5656 ...	45
CV2971	5675 ...	—
CV2972	5876 ...	45
CV2973	GU7 ...	—
CV2974	IN72 ...	—
CV2975	6BQ5 ...	14
CV2976	NE ...	80
CV2977	H2 ...	80
CV2978	H12 ...	80
CV2979	H30 ...	80
CV2980	DM70 Appendix I	—
CV2981	H410 ...	—
CV2982	H610 ...	—
CV2983	DL94 ...	66
CV2984	6080 ...	47
CV2985	HD24 ...	81
CV2986	HD203A ...	—
CV2987	HF100 ...	—
CV2988	HF200 ...	—
CV2989	HK354E ...	—
CV2990	6136 ...	48
CV2991	HL2 ...	81
CV2992	6106 ...	47
CV2993	KU25 ...	—
CV2994	HL23 ...	81
CV2995	HL23DD ...	81
CV2996	HL41DD ...	81
CV2997	HL63 ...	—
CV2998	HL133 ...	82
CV2999	HL133DD ...	82
CV3500	HL210 ...	82
CV3501	HL610 ...	—
CV3502	HL1320 ...	82
CV2503	HLDD1320	82
CV2505	HY114B ...	—
CV3506	HY615 ...	83
CV3508	6208 ...	—
CV3509	IN31 ...	—
CV3510	4B31 ...	—
CV3511	371B ...	—
CV3512	5696 ...	—
CV3514	K8140824 ...	—
CV3515	KB2 ...	84
CV3516	KK2 ...	85
CV3517	5933 ...	46
CV3518	5948/1754 ...	—
CV3519	KT30 ...	85
CV3520	KT31 ...	85
CV3521	5949/1907 ...	—
CV3522	6079 ...	—
CV3523	6146 ...	48
CV3524	GI/236G ...	—
CV3525	IN21C ...	—
CV3526	EL85 ...	77
CV3527	KTW73 ...	86

Service Type	Commercial Equivalent	Page
CV3528	M513 ...	—
CV3529	KT41 ...	86
CV3530	KTZ73 ...	86
CV3531	L2 ...	86
CV3532	L21 ...	86
CV3533	L22DD ...	86
CV3534	L30 ...	86
CV3535	C14HM ...	—
CV3536	LS408A ...	—
CV3537	L500 ...	—
CV3538	L610 ...	—
CV3539	6024 ...	—
CV3540	HT415 ...	—
CV3541	LS6A ...	87
CV3542	LS532 ...	—
CV3543	4D32 ...	—
CV3545	5939 ...	—
CV3546	MHD4 ...	88
CV3547	MH14 ...	—
CV3548	IB24A ...	—
CV3549	IB38 ...	—
CV3550	IB41 ...	—
CV3551	IN38 ...	—
CV3552	MPT4 ...	89
CV3553	MS4B ...	89
CV3554	MPT42 ...	—
CV3555	IQ22 ...	—
CV3557	MR300 ...	—
CV3558	MR300/E ...	—
CV3559	2C53 ...	—
CV3560	2J51 ...	—
CV3561	MS/Pen ...	89
CV3562	MSP41 ...	89
CV3563	MT11SW ...	—
CV3564	MT12 ...	—
CV3565	ME41 Appendix I	—
CV3567	MUI ...	89
CV3569	4J52 ...	—
CV3570	MU4250 ...	89
CV3571	MVSPen ...	89
CV3572	MVSPenB ...	89
CV3573	MZ05-20 ...	89
CV3574	MZI/76 ...	—
CV3575	3B26 ...	6
CV3576	MX40 ...	89
CV3577	25A7gt ...	29
CV3578	PM22D ...	95
CV3579	PT5E ...	—
CV3580	304TL ...	—
CV3581	VI501 ...	—
CV3582	VP4B ...	115
CV3583	5HPI ...	—
CV3584	21/2 ...	—
CV3586	471A ...	—
CV3587	705A ...	—
CV3588	706A ...	—
CV3589	707A/B ...	—

Service Type	Commercial Equivalent	Page
CV3590	708A ...	—
CV3592	UX6653 ...	—
CV3593	713A ...	40
CV3594	717A ...	40
CV3595	721A ...	—
CV3596	726B ...	—
CV3597	726V ...	—
CV3599	829B ...	—
CV3600	202PI ...	—
CV3601	7193 ...	49
CV3602	5J26 ...	—
CV3604	GL464 ...	—
CV3605	GL464 ...	—
CV3606	5J29 ...	—
CV3607	NP90 ...	—
CV3608	5J30 ...	—
CV3609	5517/ CKI017	—
CV3610	5663 ...	—
CV3611	5586 ...	—
CV3612	5686 ...	—
CV3613	6AR6 ...	12
CV3614	6BL6 ...	—
CV3615	6BM6 ...	—
CV3616	6BN6 ...	14
CV3618	6L6wga ...	18
CV3619	6SJ7wgt ...	19
CV3620	P220 ...	92
CV3621	P410 ...	92
CV3622	P610 ...	—
CV3623	PA40 ...	93
CV3624	PE7B ...	—
CV3625	PE8 ...	—
CV3626	PenB4 ...	94
CV3627	6SN7wgt ...	19
CV3628	1B35A ...	—
CV3629	6130 ...	—
CV3630	Pen44 ...	94
CV3631	Pen45DD ...	94
CV3632	6131 ...	—
CV3633	Pen231 ...	94
CV3634	Pen428 ...	94
CV3635	Pen1340 ...	94
CV3636	Pen1346 ...	—
CV3637	7BP7A ...	—
CV3638	PenA4 ...	94
CV3639	6F4 ...	—
CV3640	PJ8 ...	—
CV3641	PMIHL ...	95
CV3642	PMILF ...	95
CV3643	PM2A ...	95
CV3644	726C ...	—
CV3645	PM2DX ...	95
CV3646	845W ...	—
CV3647	PM22A ...	95
CV3648	PM24E ...	95
CV3649	PM22 ...	95

Service Type	Commercial Equivalent	Page
CV3650	12AY7 ...	24
CV3651	12SH7gt ...	—
CV3652	PT5 ...	96
CV3653	PT6 ...	—
CV3654	PT11 ...	—
CV3655	12SP7 ...	—
CV3656	PT425 ...	97
CV3657	PV05-15 ...	—
CV3658	PV1-35 ...	97
CV3659	M501A ...	—
CV3660	M510A ...	—
CV3661	M501A ...	—
CV3662	M501A ...	—
CV3666	12SW7 ...	26
CV3667	RGI-250 ...	—
CV3668	12SY7 ...	26
CV3669	2K48 ...	—
CV3670	RG4-1000 ...	—
CV3671	RK25 ...	—
CV3672	RK28 ...	—
CV3673	RK28A ...	—
CV3674	RK31 ...	—
CV3675	9004 ...	—
CV3676	2I42 ...	—
CV3677	RK47 ...	—
CV3678	2BP1 ...	—
CV3679	RK49 ...	—
CV3680	RK60 ...	110
CV3681	RK62 ...	—
CV3683	RKR47 ...	—
CV3685	QK283 ...	—
CV3686	QK284 ...	—
CV3687	4J49 ...	—
CV3688	2C33 ...	—
CV3689	3B29 ...	—
CV3690	RZ-150 ...	—
CV3691	S23 ...	102
CV3692	S23 ...	102
CV3693	10KP7 ...	—
CV3694	S130A ...	—
CV3695	S215 ...	102
CV3696	S215A ...	102
CV3697	12SX7gt ...	26
CV3698	S610 ...	—
CV3699	5693 ...	45
CV3702	SG215 ...	103
CV3703	SP4B ...	104
CV3704	SPI3C ...	104
CV3705	5691 ...	45
CV3706	5796 ...	—
CV3707	6AL7gt ...	—
CV3709	STV150/200 ...	—
CV3710	AR63 ...	—
CV3711	N78 ...	90
CV3712	STV280/80A ...	—
CV3714	822Spec ...	—
CV3715	SW5 ...	—

Service Type	Commercial Equivalent	Page
CV3719	SW7 ...	—
CV3721	T4D ...	105
CV3722	T20 ...	—
CV3723	T4I ...	105
CV3724	T200 ...	—
CV3725	GL446 ...	—
CV3726	TDD2A ...	106
CV3727	TDD4 ...	106
CV3729	1N47 ...	—
CV3730	TMC15B ...	—
CV3731	TMC16B ...	—
CV3732	TMC20B ...	—
CV3733	3KPI ...	—
CV3734	6X5wgt ...	20
CV3735	TP26 ...	107
CV3736	KI105P2 ...	—
CV3737	QK353 ...	—
CV3738	VXR130 ...	—
CV3739	TX3-200 ...	—
CV3740	TX5-400 ...	—
CV3741	TZ2-300 ...	—
CV3742	TZ20 ...	—
CV3743	U5 ...	108
CV3744	U6 ...	—
CV3745	1B58 ...	—
CV3746	U14 ...	108
CV3747	U15 ...	108
CV3748	2X2 ...	5
CV3749	576 ...	—
CV3750	U22 ...	108
CV3751	U21 ...	108
CV3752	U30 ...	108
CV3753	U31 ...	108
CV3754	U50 ...	109
CV3755	5755 ...	45
CV3756	U600 ...	—
CV3758	UR3C ...	112
CV3759	R2 ...	99
CV3760	UU5 ...	112
CV3761	UU7 ...	112
CV3762	V120 ...	—
CV3763	V123B ...	—
CV3765	V226 ...	113
CV3766	V312 ...	113
CV3767	V339 ...	113
CV3768	V503 ...	113
CV3769	V877 ...	—
CV3770	V955 ...	—
CV3772	V970 ...	—
CV3773	V1010 ...	—
CV3774	V1020 ...	—
CV3775	V1021 ...	—
CV3776	V1023 ...	—
CV3777	V1029 ...	—
CV3778	V1105 ...	—
CV3779	4J26 ...	—
CV3780	4J27 ...	—

Service Type	Commercial Equivalent	Page
CV3781	4J28 ...	—
CV3782	4J29 ...	—
CV3783	4J30 ...	—
CV3784	5B/102A ...	—
CV3785	VMP4G ...	115
CV3786	VMP4G ...	115
CV3787	VP2 ...	115
CV3788	VP4 ...	115
CV3789	5842 ...	45
CV3790	VPI3C ...	116
CV3791	VP21 ...	116
CV3792	VP23 ...	116
CV3793	VP24 ...	—
CV3794	VP210 ...	116
CV3795	VP215 ...	116
CV3796	VPI322 ...	116
CV3797	V944A ...	—
CV3798	OA3 ...	—
CV3799	OB3 ...	—
CV3800	VS2 ...	116
CV3802	VS24 ...	116
CV3803	VS24 ...	116
CV3804	W21 ...	117
CV3805	W30 ...	117
CV3806	W31 ...	117
CV3808	6T4 ...	20
CV3809	807w ...	40
CV3810	WD30 ...	117
CV3812	1P31 ...	—
CV3813	8A ...	—
CV3815	3B22 ...	—
CV3816	X21 ...	119
CV3817	X21 ...	119
CV3818	X22 ...	119
CV3819	X24 ...	119
CV3820	X24 ...	119
CV3021	X31 ...	119
CV3022	X31 ...	119
CV3823	X41 ...	119
CV3825	X63 ...	119
CV3826	X65 ...	119
CV3827	12C8gt ...	25
CV3828	X66 ...	119
CV3829	293a ...	—
CV3830	XH1.5 ...	120
CV3831	XL2 ...	—
CV3832	XP2 ...	121
CV3833	XSG2.0V ...	121
CV3834	XW2 ...	—
CV3835	Z21 ...	121
CV3836	Z21 ...	121
CV3837	Z21 ...	121
CV3838	Z62 ...	121
CV3839	Z66 ...	121
CV3840	TTR31MR ...	—
CV3841	6FI ...	17
CV3842	5J29 ...	—

Service Type	Commercial Equivalent	Page
CV3843	5J30 ...	—
CV3844	5J31 ...	—
CV3845	RS366 ...	—
CV3846	RS261 ...	—
CV3847	RS250 ...	—
CV3848	RS260 ...	—
CV3849	RS217 ...	—
CV3850	RS207 ...	—
CV3851	RS253 ...	—
CV3852	RS285 ...	—
CV3853	RS15 ...	—
CV3854	RS47 ...	—
CV3855	RS329 ...	—
CV3856	RS330 ...	—
CV3857	RS283A ...	—
CV3858	RS18 ...	—
CV3859	RV271A ...	—
CV3860	RS282 ...	—
CV3761	RS281 ...	—
CV3862	RS55 ...	—
CV3863	RS289 ...	—
CV3864	RS389 ...	—
CV3865	RS288 ...	—
CV3866	RS203 ...	—
CV3867	RSQ15/40 ...	—
CV3868	RSQ15/5 ...	—
CV3869	RSQ15/5 ...	—
CV3870	RGQ10/4D ...	—
CV3871	RS254 ...	—
CV3872	RS255 ...	—
CV3873	RS566 ...	—
CV3874	ATR388 ...	—
CV3875	KU54... ...	—
CV3876	SAL39 ...	—
CV3877	1B56 ...	—
CV3878	2-150D ...	—
CV3879	4-400A ...	—
CV3880	4-100A ...	—
CV3881	EB41 ...	71
CV3882	EBC41 ...	72
CV3883	EAF42 ...	71
CV3884	ECC40 ...	73
CV3885	EF40 ...	74
CV3886	EF41 ...	74
CV3887	EF42 ...	74
CV3888	ECH42 ...	73
CV3889	EL41 ...	76
CV3890	EL42 ...	76
CV3891	EZ40 ...	78
CV3892	AZ41 ...	57
CV3893	4X150G ...	—
CV3894	6BF7 ...	13
CV2895	5702 ...	—
CV3896	5784 ...	—
CV3897	5787 ...	—
CV3898	5829 ...	—
CV3899	5932 ...	46

Service Type	Commercial Equivalent	Page
CV3900	5963 ...	46
CV3901	6161 ...	—
CV3902	6002 ...	—
CV3903	QK338 ...	—
CV3904	2K41 ...	—
CV3905	5847 ...	45
CV3906	6117 ...	—
CV3907	720C ...	—
CV3908	6BH6 ...	13
CV3909	6BJ6 ...	14
CV3912	1U5 ...	3
CV3915	8025A ...	—
CV3916	5647 ...	45
CV3917	5703 ...	—
CV3918	5JP2A ...	—
CV3919	U82 ...	109
CV3920	A2196 ...	—
CV3921	A2244 ...	—
CV3923	1N21B ...	—
CV3924	6AC1w ...	11
CV3926	7C23 ...	—
CV3927	12K8 ...	25
CV3928	5636 ...	44
CV3929	5840 ...	45
CV3930	5718 ...	45
CV3931	5906 ...	46
CV3932	5977 ...	46
CV3933	5783 ...	—
CV3934	1N34A ...	—
CV3935	14R7 ...	27
CV3936	14S7 ...	27
CV3937	14R7 ...	27
CV3938	12CS7gt ...	26
CV3939	6BM6a ...	—
CV3940	2C39 ...	—
CV3941	3RP1 ...	—
CV3942	5692 ...	45
CV3943	5852 ...	46
CV3944	2J30 ...	—
CV3945	2K45 ...	—
CV3946	3WPI ...	—
CV3947	4J54 ...	—
CV3948	4J55 ...	—
CV3949	4J56 ...	—
CV3950	4J57 ...	—
CV3951	4J58 ...	—
CV3952	4J59 ...	—
CV3953	4J78 ...	—
CV3954	5CP7 ...	—
CV3955	5CP12 ...	—
CV3956	719A ...	—
CV3957	1258 ...	—
CV3958	5657 ...	—
CV3959	5FP7A ...	—
CV3960	5783 ...	—
CV3961	6111 ...	47
CV3963	559 ...	40

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV3964	354 ...	—	CV4023	6AU6WA ...	12	CV4501	5A/I72G ...	—
CV3965	2C46 ...	—	CV4024	12AT7WA ...	24	CV4502	5A/I73G ...	—
CV3966	QK428 ...	—	CV4025	6AL5 ...	11	CV4503	5A/I74G ...	—
CV3967	1N63 ...	—	CV4026	6R4wga ...	19	CV4504	2S/I41G ...	—
CV3968	3DPIA ...	—	CV4027	5Y3wgta ...	10	CV4505	CV473 ...	—
CV3969	577 ...	—	CV4028	OB2wa ...	—	CV4506	5A/I75G ...	—
CV3970	5721 ...	45	CV4029	5902 ...	46	CV4507	CV468 ...	—
CV3971	89L ...	—	CV4030	G75/3G ...	—	CV4508	CV467 ...	—
CV3972	6095 ...	47	CV4031	6J6wa ...	18	CV5001	601C ...	—
CV3973	6AC7Y ...	11	CV4032	6814a ...	45	CV5002	CS3A ...	—
CV3974	6AS7Y ...	12	CV4033	F/6060 ...	—	CV5003	BU28/4 ...	—
CV3975	6236 ...	—	CV4034	F/6067 ...	—	CV5004	3JP2 ...	—
CV3976	M509 ...	—	CV4035	F/6057 ...	—	CV5005	6110 ...	47
CV3977	1N35 ...	—	CV4036	F/6443 ...	—	CV5006	6021 ...	46
CV3978	6AG7Y ...	11		Appendix III		CV5007	6112 ...	47
CV3979	OD3W ...	—	CV4037	F/5750 ...	—	CV5008	6080WA ...	47
CV3980	12SR7GT ...	26	CV4039	6062 ...	47	CV5009	6203 ...	48
CV3981	G5S3 ...	—	CV4040	S6F17... ...	122	CV5010	5644 ...	—
CV3982	M506 ...	—	CV4041	S6F17F (flying leads) ...	17	CV5011	TH1657A ...	—
CV3983	12SW7GT ...	26	CV4042	19G6 (flying leads) ...	28	CV5012	IN23C ...	—
CV3985	6SL7WGT ...	19				CV5013	IN23CR ...	—
CV3986	6021 ...	46	CV4043	6061 ...	47	CV5014	IN78 ...	—
CV3987	5644 ...	—	CV4044	6443 ...	49	CV5015	IN53 ...	—
CV3988	6442 ...	—	CV4045	F/6061 ...	—	CV5016	IN32 ...	—
CV3989	6AN4 ...	12	CV4046	CV415 ...	—	CV5017	450TL ...	—
CV3990	2E26 ...	5	CV4047	G400/2G ...	—	CV5018	4J52A ...	—
CV3991	4X150D ...	—	CV4048	QS1212 ...	—	CV5019	QK387 ...	—
CV3992	HD6002 ...	—	CV4049	F/5726 ...	—	CV5020	QK388 ...	—
CV3993	IN67A ...	—	CV4050	F/5654 ...	—	CV5021	6V3A ...	20
CV3994	IV2 ...	4	CV4051	F/6158 ...	—	CV5022	CS31A ...	—
CV3995	6CB6 ...	15	CV4052	QS1202 ...	—	CV5023	{ 6D4mod. AFX212 ...	—
CV3996	U709 ...	110	CV4053	QS1203 ...	—	CV5024	MX-408/U ...	—
CV3997	JP9-15 ...	—	CV4054	F/5654 ...	—	CV5025	XB2 ...	—
CV3998	E180F ...	68	CV4055	6132 ...	48	CV5026	IN320 ...	—
CV3999	MW22/22 ...	—	CV4056	F/6132 ...	—	CV5027	3V/390A ...	—
CV4001	F/6063 ...	—	CV4057	(CV4082) ...	—	CV5028	3V/390B ...	—
CV4002	F/6064 ...	—		(CV371) ...	—	CV5029	6J4WA ...	18
CV4003	12AU7 ...	24	CV4058	6C4WA ...	15	CV5030	26Z5W ...	30
CV4004	6057 ...	47	CV4059	M8097 ...	88	CV5031	M.548 ...	—
CV4005	6X4 ...	20	CV4060	S11E12 ...	—	CV5032	1X2A... ...	4
CV4006	6059 ...	47	CV4061	CV2289 ...	—	CV5033	3-14 ...	—
CV4007	6AL5W ...	11	CV4062	CV2209 ...	—	CV5034	3JP11 ...	—
CV4008	6719 ...	45	CV4063	6516 ...	49	CV5035	5ADPI ...	—
CV4009	6BA6W ...	13	CV4065	CV4062 ...	—	CV5036	6AF4 ...	11
CV4010	5654 ...	45	CV4066	M8190 ...	—	CV5037	6BA6W ...	13
CV4011	6AS6W ...	12	CV4067	M8167 ...	—	CV5038	6BC4 ...	13
CV4012	5750 ...	45	CV4068	6158 ...	48	CV5039	6BL7 ...	14
CV4013	5670 ...	—	CV4069	F/6158 ...	—	CV5040	6BQ6 ...	14
CV4014	6064 ...	47	CV4070	M8099 ...	88	CV5041	6CL6 ...	16
CV4015	6065 ...	47	CV4071	CV404 ...	—	CV5042	12BH7 ...	25
CV4016	5814 ...	45	CV4073	SX641 ...	—	CV5043	811A ...	—
CV4017	5751 ...	45	CV4074	SX642 ...	—	CV5044	5836 ...	—
CV4018	2D21W ...	5	CV4076	M8179 ...	—	CV5045	5837 ...	—
CV4019	6AQ5W ...	12	CV4077	SX643 ...	—	CV5056	5844 ...	45
CV4020	OA2WA ...	—	CV4078	SX644 ...	—	CV5047	G7B ...	—
CV4021	3B24WA ...	6	CV4080	M8225 ...	—	CV5048	V239C/IK ...	—
CV4022	6135 ...	48						

Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page	Service Type	Commercial Equivalent	Page
CV5049	V24IC/IK ...	—	CV5107	KD63 ...	—	NR65	MSP4 ...	89
CV5050	212-G11A ...	—	CV5108	EPF60 ...	—	NR66	D4I ...	62
CV5051	HD2016A ...	—	CV5109	GE10 ...	—	NR67	6L7 ...	18
CV5052	6AU7 ...	12	CV5110	CV1053 ...	—	NR68	6Q7 ...	19
CV5053	6098CT ...	47	CV5112	3A/I67M ...	123	NR69	Y63 ...	Appendix I
CV5054	6390 ...	—	CV5113	5787WA ...	—	NR70	MS/Pen ...	89
CV5055	EM.8I Appendix I	—	CV5114	6260B ...	—	NR71	MS/PenT ...	89
CV5056	A2094 ...	—	CV5115	X79 ...	119	NR72	N43 ...	90
CV5057	5702WA ...	—	CV5116	3B/24IM ...	6	NR73	6N7 ...	18
CV5058	578WA ...	—	CV5117	Booted CVI92 ...	—	NR74	PVI-35 ...	97
CV5059	5829WA ...	—	CV5120	20CV ...	—	NR75	ACP4... ...	54
CV5060	Z759 ...	122	CV6008	24BI ...	—	NR76	KTZ4I ...	86
CV5061	7YP2 ...	—	NGT1	DPQ ...	—	NR77	6L6 ...	18
CV5062	584I ...	—	NGT2	GTIC ...	80	NR78	6C5 ...	15
CV5063	1N70 ...	—	NGT4	GTIA ...	—	NR78A	L63 ...	86
CV5064	1N38A ...	—	NGTI21	T4I ...	105	NR79	Z62 ...	121
CV5065	6U8 ...	20	NGTI28	GTIC ...	80	NR80	E1148 ...	70
CV5066	BL25 ...	—	NR15	PM3 ...	95	NR81	6K7 ...	18
CV5067	6SH7L ...	19	NR15A	PM4DX ...	95	NR82	X65 ...	119
CV5068	ES75H ...	—	NR16	PM254 ...	95	NR83	6J7 ...	18
CV5069	662I ...	—	NR16A	PM4DX ...	95	NR84	20A1 ...	29
CV5070	5FPII ...	—	NR18	DEQ ...	—	NR85	6F6 ...	17
CV5071	3J/195E ...	—	NR22	PM14 ...	95	NR86	KTW63 ...	86
CV5072	EZ8I ...	78	NR23	PM14 ...	95	NR87	ACSPenDD ...	53
CV5073	6AM4 ...	12	NR26	MHL4 ...	88	NR94	ACP4... ...	54
CV5074	6AF4A ...	11	NR27	104V ...	36	NSI	STX280/80 ...	—
CV5075	622C ...	—	NR27A	104V ...	36	NS3	202 ...	—
CV5076	1N198 ...	—	NR28	PM2 ...	95	NS4	4713 ...	—
CV5077	PL8I ...	94	NR31	MH4 ...	88	NS5	304 ...	—
CV5078	XC17 ...	—	NR35	PD220A ...	93	NT18	D060 ...	—
CV5079	5643 ...	—	NR37	ACSG ...	54	NT20	PM365 ...	95
CV5080	EF37A ...	74	NR38	VMS4... ...	115	NT36	DA100 ...	—
CV5081	61SPT ...	34	NR39	PM22A ...	95	NT37	4033A ...	43
CV5082	M8234 ...	—	NR40	PM24D ...	95	NT38A	PZI-75 ...	—
CV5083	(QS75-20) ...	—	NR41	210VPT ...	—	NT39	ACT36 ...	—
CV5084	30BIP3 ...	—	NR42	P220 ...	92	NT40	DET5 ...	—
CV5085	27M2 ...	—	NR43	PM24A ...	95	NT58	DET12 ...	—
CV5086	6BS7 ...	14	NR44	PX4 ...	97	NT62	PM24D ...	95
CV5087	4EP7 ...	—	NR45	VMP4G ...	115	NT62A	PM24D ...	95
CV5088	XC15 ...	—	NR46	D4I ...	62	NT65A	PZI-35 ...	—
CV5089	L3040 ...	—	NR47	PX25 ...	98	NT82	PM202 ...	95
CV5090	L4031 ...	—	NR48	EBC33 ...	72	NU3	U12/14 ...	108
CV5091	CV2311 ...	—	NR49	EF36 ...	74	NU5	RX3-120 ...	—
CV5092	EF800 ...	75	NR50	AT4 ...	—	NU12	U18 ...	108
CV5093	EL803 ...	77	NR51	VMP4G ...	115	NU13	U15 ...	108
CV5094	EL86 ...	77	NR52	354V ...	39	NU13A	U15 ...	108
CV5095	GK226I ...	—	NR53	KT42 ...	86	NU15	U4020 ...	110
CV5096	GK240I ...	—	NR54	AP4 ...	—	NU16	GU5 ...	—
CV5098	ZS2I ...	—	NR54A	AP4 ...	—	NU17	UU5 ...	112
CV5099	ZS22 ...	—	NR55	4DI ...	7	NU18	U17 ...	108
CV5100	GJ3M ...	—	NR56	DA30... ...	62	NU20	U50 ...	109
CV5101	GJ5M ...	—	NR57	ML4 ...	88	NU31	MU2 ...	89
CV5102	GJ6M ...	—	NR58	244V ...	37	NU33	SU2150A ...	105
CV5103	ZS20B ...	—	NR59	KT4I ...	86	NU33A	HVR2 ...	83
CV5104	GEX54I ...	—	NR60	H42 ...	80	NU34	HVR2 ...	83
CV5105	OC45 ...	—	NR61	W42 ...	117	VI77	EM3I Appendix I	—
CV5106	EIT ...	—	NR64	KTW62 ...	86	VI103	Y63 Appendix I	—

Service Type	Commercial Equivalent	Page
VR18	21SSG ...	37
VR19	PM2 ...	95
VR21	210LF ...	37
VR22	220PA ...	37
VR27	210LF ...	37
VR28	220VSG ...	37
VR32	220B ...	37
VR35	QP2I ...	98
VR37	MH4 ...	88
VR38	MHL4 ...	88
VR40	PX25 ...	98
VR41	PM12M ...	95
VR43	210PG ...	37
VR44	210DDT ...	37
VR45	X56 ...	—
VR46	PT25H ...	97
VR47	TZ05-20 ...	—
VR49	210SPT ...	37
VR53	EF39 ...	74
VR54	EB34 ...	71
VR55	EB3C3 ...	72
VR56	EF36 ...	74
VR57	EK32 ...	76
VR57A	EK32 ...	76
VR59	955 ...	—
VR65	SP61 ...	104
VR65A	SP41 ...	104
VR66	P61 ...	92
VR67	6J5 ...	18
VR78	DI ...	61
VR82	220TH ...	37
VR83	210VPT ...	37
VR91	EF50 ...	74
VR91A	EF50 ...	74
VR92	EA50 ...	71
VR95	954 ...	—
VR95A	954 ...	—
VR99	X66 ...	119
VR99A	ECH35 ...	73
VR100	KTW62 ...	86

Service Type	Commercial Equivalent	Page
VR101	MHLD6 ...	88
VR102	BL63 ...	59
VR105	ML6 ...	88
VR106	9D2 ...	23
VR107	15D2 ...	28
VR108	8D2 ...	22
VR109	4DI ...	7
VR109A	4DI ...	7
VR116	V872 ...	114
VR117	4IMTL ...	33
VR117A	4IMTL ...	33
VR118	KT2 ...	85
VR119	DDL4 ...	64
VR122	4IMXP ...	33
VR123	EF8 ...	74
VR124	MS/Pen ...	89
VR125	MS/PenB ...	89
VR126	4SH ...	—
VR129	MS/Pen ...	89
VR130	HL23 ...	81
VR135	E1148 ...	70
VR136	EF54 ...	75
VR137	EC52 ...	72
VR502	KT32 ...	85
VR503	KT33C ...	85
VR505	MH41 ...	88
VS68	STV280/40 ...	—
VS69	STV280/80 ...	—
VS70	7475 ...	—
VT20	220P ...	37
VT23	230XP ...	37
VT23A	230XP ...	37
VT25	DET25 ...	—
VT45	X56 ...	—
VT46	PT25H ...	97
VT50	HL2 ...	81
VT51	Pen220A ...	94
VT52	EL32 ...	76
VT60	807 ...	40

Service Type	Commercial Equivalent	Page
VT60A	807 ...	40
VT61	DET19 ...	64
VT61A	TV03-10 ...	108
VT62	TY1-50 ...	—
VT73	6F5 ...	17
VT74	6J7 ...	18
VT75	KT66 ...	86
VT5A/B	KT44 ...	86
VT76	DA41 ...	—
VT79	KT8 ...	85
VT80	4307A ...	—
VT81	4052A ...	—
VT88	832 ...	—
VT96	5B/502A ...	—
VT104	PT15 ...	97
VT105	ML6 ...	88
VT127	Pen46 ...	94
VT139	MH4 ...	88
VT180	EF39 ...	74
VT195	5Z4G... ...	10
VT501	E1192 ...	90
VT501A	E1192 ...	70
VU29	ESU150 ...	—
VU39	MUI2/14 ...	89
VU64	U12/14 ...	108
VU71	U52 ...	109
VU71A	U52 ...	109
VU72	GU5 ...	—
VU111	V1907 ...	114
VU113	U17 ...	108
VU120	SU2150A ...	105
VU120A	SU2150A ...	105
VU133	V960 ...	114
VU134	HVR2 ...	83
VU504	V1901 ...	—
VU508	V1913 Appendix III	
VW36	220PA ...	37
VW42	210LF ...	37
VW48	21SSG ...	37

American Army V.T. Series Index and Cross Reference to British Service Types

American Army No.	Civilian No.	Page	American Army No.	Civilian No.	Page	American Army No.	Civilian No.	Page
VT1	203A ...	—	VT67	30 spec.	—	VT109	2051 ...	43
VT2	205B ...	—	VT68	6B7 ...	13	VT111	5BP4/1802P4	—
VT4B/C	211 ...	—	VT69	6D6 ...	16	VT112	6AC7 ...	11
VT5	215A ...	—	VT70	6F7 ...	17	VT114	5T4 ...	10
VT6	212A ...	—	VT72	842 ...	41	VT115	6L6 ...	18
VT7	WX12 ...	—	VT73	843 ...	41	VT115A	6L6gt ...	18
VT8	UV204 ...	—	VT74	5Z4 ...	10	VT116	6SJ7 ...	19
VT17	860 ...	—	VT75	75 ...	35	VT116A	6SJ7gt ...	19
VT19	861 ...	—	VT76	76 ...	35	VT116B	6SJ7y ...	19
VT22	204A ...	—	VT77	77 ...	35	VT117	6SK7 ...	19
VT24	864 ...	41	VT78	78 ...	35	VT117A	6Sk7gt ...	19
VT25	10 ...	23	VT80	80 ...	35	VT118	832 ...	—
VT25A	10 spec.	—	VT83	83 ...	35	VT119	2X2 ...	5
VT26	22 ...	29	VT84	84/6Z4	35 & 20	VT120	954 ...	—
VT27	30 ...	31	VT85	6K7 ...	18	VT121	955 ...	—
VT28	24 ...	29	VT86	6K7 ...	18	VT122	530 ...	—
VT29	27 ...	31	VT86A	6K7g ...	18	VT123	5586 ...	—
VT30	01A ...	—	VT86B	6K7gt ...	18	VT124	1A5 ...	1
VT31	31 ...	31	VT87	6L7 ...	18	VT125	1C5 ...	1
VT33	33 ...	31	VT87A	6L7g ...	18	VT126	6X5 ...	20
VT34	207 ...	—	VT88	6R7 ...	19	VT126A	6X5g ...	20
VT35	35/51	32 & 34	VT88A	6R7g ...	19	VT126B	6X5gt ...	20
VT36	36 ...	32	VT88B	6RTgt ...	19	VT127	Nil ...	—
VT37	37 ...	32	VT89	89 ...	35	VT127A	Nil ...	—
VT38	38 ...	32	VT90	6H6 ...	17	VT128	1630 ...	—
VT39	869 ...	—	VT90A	6H6gt ...	17	VT129	304TL ...	—
VT39A	869A ...	—	VT91	6J7 ...	18	VT130	250TL ...	—
VT40	40 ...	32	VT91A	6J7gt ...	18	VT131	12SK7 ...	20
VT41	851 ...	—	VT92	6Q7 ...	19	VT132	12K8 ...	25
VT42	872 ...	—	VT92A	6Q7g ...	19	VT133	12SR7 ...	26
VT42A	872 spec.	—	VT93	6B8 ...	13	VT134	12A6 ...	24
VT43	845 ...	—	VT93A	6B8g ...	13	VT135	12J5 ...	25
VT44	32 ...	31	VT94	6J5 ...	18	VT135A	12J5 ...	25
VT45	45 ...	33	VT94A	6J5g ...	18	VT136	1625 ...	42
VT46	866 ...	—	VT94B	6J5 ...	18	VT137	1626 ...	42
VT46A	866A ...	—	VT94C	6J5 ...	18	VT138	1629 ...	—
VT47	47 ...	33	VT94D	6J5gt ...	18	VT139	VR150-30 ...	—
VT48	41 ...	32	VT95	2A3 ...	4	VT140	1628 ...	—
VT49	39/44	32 & 33	VT96	6N7 ...	18	VT141	531 ...	—
VT50	50 ...	33	VT96B	6N7 ...	18	VT142	W.E39DY ...	—
VT51	841 ...	—	VT97	5W4 ...	10	VT143	805 ...	40
VT52	2C45 ...	—	VT98	6U5/6G5	—	VT144	813 ...	—
VT54	34 ...	32		Appendix I		VT145	5Z3 ...	10
VT55	865 ...	—	VT99	6F8 ...	17	VT146	1N5GT ...	3
VT56	56 ...	34	VT100	807 ...	40	VT147	1A7 ...	1
VT57	57 ...	34	VT100A	807 mod.	40	VT148	1D8 ...	2
VT58	58 ...	34	VT101	837 ...	—	VT149	3A8 ...	5
VT60	850 ...	—	VT103	6SQ7 ...	19	VT150	6SA7 ...	9
VT62	801 ...	—	VT104	12SQ7 ...	26	VT150A	6SA7gt ...	9
VT63	42 ...	33	VT105	6SC7 ...	19	VT151	6A8 ...	11
VT64	800 ...	—	VT106	803 ...	—	VT151A	6A8gt ...	11
VT65	6C5 ...	15	VT107	6V6 ...	20	VT152	6K6 ...	18
VT65A	6C5G ...	15	VT107A	6V6gt ...	20	VT152A	6K6gt ...	18
VT66	6F6 ...	17	VT107B	6V6g ...	20	VT153	12C8 ...	25
VT66A	6F6G ...	17	VT108	450TH ...	—	VT154	814 ...	—

American Army No.	Civilian No.	Page	American Army No.	Civilian No.	Page	American Army No.	Civilian No.	Page
VT158	3092 ...	—	VT197A	5Y3G ...	10	VT236	836 ...	40
VT161	12SA7 ...	26	VT198A	6G6 ...	17	VT237	957 ...	—
VT162	12SJ7 ...	26	VT199	6SS7 ...	19	VT238	956 ...	—
VT163	6C8 ...	15	VT200	VR105-30 ...	—	VT239	1LE3 ...	3
VT164	1619 ...	42	VT201	25L6 ...	30	VT240	710A ...	—
VT165	1624 ...	42	VT201C	25L6gt ...	30	VT214	7E5 ...	21
VT166	371A ...	—	VT202	9006 ...	50	VT243	7C4 ...	21
VT167	6K8 ...	18	VT203	9003 ...	530	VT244	5U4 ...	10
VT167A	6K8g ...	18	VT204	HK24G ...	—	VT245	2050 ...	—
VT168A	6Y6 ...	20	VT205	6ST7 ...	19	VT246	918 ...	—
VT169	12C8 ...	25	VT206A	5V4G ...	10	VT247	6AG7... ...	11
VT170	1E5GP ...	2	VT207	12AH7 ...	24	VT248	3CPI/180pl ...	—
VT171	1R5 ...	3	VT208	7B8 ...	21	VT249	1006 ...	—
VT171A	Loctal equiv. of 1R5 ...	—	VT209	12SG7 ...	26	VT250	EF50 ...	74
VT172	1S5 ...	3	VT210	1S4 ...	3	VT251	WL441 series ...	—
VT173	1T4 ...	3	VT211	6SG7 ...	15	VT252	923 ...	—
VT174	3S5 ...	—	VT212	958 ...	—	VT254	304TH ...	—
VT175	1613 ...	42	VT213A	6L5 ...	18	VT255	705A ...	—
VT176	6AB7 ...	11	VT214	12H6 ...	25	VT256	GL486 ...	—
VT177	1LH4 ...	3	VT215	6E5 Appendix I ...	—	VT257	K-7 ...	—
VT178	1LC5 ...	3	VT216	816 ...	40	VT259	829 ...	—
VT179	1LN5 ...	3	VT217	811 ...	—	VT260	OA3 ...	—
VT180	3LF4 ...	7	VT218	100TH ...	—	VT264	3Q4 ...	7
VT181	7Z4 ...	22	VT220	250TH ...	—	VT266	1616 ...	42
VT182	3B7 ...	6	VT221	305 ...	—	VT267	WL578 ...	—
VT183	1R4 ...	3	VT222	884 ...	41	VT268	12SC7 ...	26
VT184	VR90/30 ...	—	VT223	1H5 ...	2	VT269	717A ...	40
VT185	3D6 ...	6	VT224	RK34 ...	—	VT277	417 ...	—
VT186	Spec. ...	—	VT225	307A ...	—	VT279	GY2 ...	—
VT187	575A ...	—	VT226	3EPI/1806PI ...	—	VT280	C7063 ...	—
VT188	7E6 ...	21	VT227	7184 ...	49	VT281	HY145ZT ...	—
VT189	7F7 ...	21	VT228	8012 ...	—	VT282	ZG489 ...	—
VT190	7H7 ...	22	VT229	6SL7 ...	19	VT283	QF-206 ...	—
VT191	316A ...	—	VT230	350A ...	—	VT284	QF-197 ...	—
VT192	7A4 ...	21	VT231	6SN7 ...	19	VT285	QF-200C ...	—
VT193	7C7 ...	21	VT232	E1148 ...	70	VT286	832A ...	—
VT194	7J7 ...	22	VT233	6SR7 ...	19	VT287	815 ...	—
VT195	1005 ...	41	VT234	114B ...	36	VT288	12SH7 ...	26
VT196	6W5 ...	20	VT235	615 ...	40	VT289	12SL7 ...	26

British Post Office V.T. Series Index and Cross Reference to British Service Types

Post Office				Commercial				Post Office				Commercial			
VT No.	CV Equiv.	Equiv.	Page	VT No.	CV Equiv.	Equiv.	Page	VT No.	CV Equiv.	Equiv.	Page	VT No.	CV Equiv.	Equiv.	Page
10	1610	MT4	...	...	...	MT4	...	91	1038	MHL4	...	...	...	88	...
11	1611	MR4	...	...	89	MR4	...	92	1735	DC2P	...	...	...	63	...
16	1607	OC2.5	...	...	...	OC2.5	...	93	1666	P610	...	...	...	—	...
17	1608	U4	...	...	...	U4	...	94	1667	LS8A	...	...	...	87	...
19	1612	VT9B	...	...	...	VT9B	...	95	1668	4033L	...	...	...	43	...
20	1613	—	...	...	...	—	...	98	1669	P625	...	...	...	92	...
24	1636	LS5	...	...	...	LS5	...	100	(CV1670)	HL1320	...	...	...	82	...
25	1637	LS5	...	...	...	LS5	...	100B	1670	H11320	...	...	...	82	...
26	1600	CAT1	...	...	...	CAT1	...	102	1671	4021A	...	...	...	43	...
27	1601	CAR1	...	...	...	CAR1	...	103B	1672	Pen36C	...	...	...	94	...
31	1638	4101D	...	...	...	4101D	...	104	1040	PX25	...	...	...	98	...
31	1639	4101E	...	...	...	4101E	...	105	1673	PM2HL	...	...	...	95	...
32B	1640	4002D	...	...	...	4002D	...	016	1674	AC/S2Pen	...	...	...	54	...
32D	1641	4102E	...	...	...	4102E	...	107	1675	N43	...	...	...	90	...
33	1642	DER	...	...	...	DER	...	108	1676	LS8A	...	...	...	87	...
34	1614	ES1500A	...	...	...	ES1500A	...	109	1677	AC52	...	...	...	—	...
35	1615	ESU1500	...	...	...	ESU1500	...	110	1678	HLA2	...	...	...	82	...
36	1602	CAR4	...	...	...	CAR4	...	111	1679	DA30	...	...	...	62	...
37B	1643	E132	...	...	...	E132	...	1112	1680	PM202	...	...	...	95	...
37C	1644	E1532	...	...	...	E1532	...	113	1681	TSP4	...	...	...	107	...
38	1645	E133	...	...	...	E133	...	114	1682	—	...	...	...	—	...
38A	1646	E1453	...	...	...	E1453	...	115	1683	MKT4	...	...	...	88	...
40	1647	LS5B	...	...	...	LS5B	...	116	1684	APP4C	...	...	...	56	...
46	1616	—	...	...	...	—	...	116A	1685	APP4c	...	...	...	56	...
47	1603	4104A	...	...	...	4104A	...	118A	1686	D418	...	...	...	62	...
51	1617	—	...	...	...	—	...	118B	1687	D418	...	...	...	62	...
52	(CV1025)	DET25	...	...	...	DET25	...	119	1169	VMP4G	...	...	...	115	...
53	1604	SS1971	...	...	...	SS1971	...	120	1688	3B/252B	...	...	...	6	...
54	1618	ES250M	...	...	...	ES250M	...	121A	(CV1288)	3B/252B	...	...	...	6	...
56	1648	4205E	...	...	...	4205E	...	122	(CV244)	AF2	...	...	...	55	...
57	25	ES85	...	...	...	ES85	...	125	1689	PAI	...	...	...	93	...
58	1619	4212E	...	...	...	4212E	...	126	1690	9AI	...	...	...	23	...
59	1620	DET6	...	...	...	DET6	...	127	(CV1187)	D41	...	...	...	62	...
60	1605	4013C	...	...	...	4013C	...	127A	1691	DDL4	...	...	...	64	...
61	1609	SW7	...	...	...	SW7	...	128	1692	AC/P	...	...	...	54	...
62	1606	CAT7	...	...	...	CAT7	...	130	1621	ESW501	...	...	...	—	...
65	1649	6C5	...	...	15	6C5	...	131	1168	PX4	...	...	...	97	...
66	1650	LS5A	...	...	...	LS5A	...	132	1694	3A/144A	...	...	...	—	...
68	1651	G455B	...	...	...	G455B	...	133	1695	DH30	...	...	...	65	...
69	1652	P220A	...	...	92	P220A	...	136	1118	KT2	...	...	...	85	...
72	249	4019A	...	...	43	4019A	...	137	1081	4502A	...	...	...	—	...
73A	1653	KCI	...	...	84	KCI	...	138	1623	RGI-250	...	...	...	—	...
74	1654	—	...	...	...	—	...	139	399	MH4	...	...	...	88	...
75	1655	4109B	...	...	43	4109B	...	140	1166	P220	...	...	...	92	...
781	1656	LS8	...	...	87	LS8	...	142	1039	R3	...	...	...	99	...
79A	1657	4020B	...	...	43	4020B	...	143	1696	B21	...	...	...	57	...
80A	1658	L29B	...	...	87	L29B	...	144	1371	PZ1-35	...	...	...	—	...
81	1659	4022B	...	...	...	4022B	...	145	243	4045A	...	...	...	—	...
82	1660	LS7	...	...	87	LS7	...	146	1625	RG30250	...	...	...	—	...
85	1661	DL	...	...	66	DL	...	147	1697	X41	...	...	...	119	...
86	1662	P215	...	...	92	P215	...	148	1689	A819	...	...	...	53	...
87	1663	4021B	...	...	43	4021B	...	149	1349	RG5-500	...	...	...	—	...
88	1664	B406	...	...	58	B406	...	150	1699	SP41	...	...	...	104	...
89	1665	DH	...	...	65	DH	...	150A	1700	SP41	...	...	...	104	...
90	1732	ML4	...	...	88	ML4	...	151	1701	XL0	...	...	...	—	...

Post Office					Commercial					Post Office					Commercial				
VT No.	CV	Equiv.		Page						VT No.	CV	Equiv.		Page					
152	1702	XP	...	121						181	1052	EL32	...	76					
153	1703	XW	...	—						182	1823	IN5	...	3					
154	1067	6J5	...	18						183	1724	5A/102D	...	8					
155	1704	57	...	34						185	245	4328D	...	44					
156	1705	58	...	34						186	1726	5A/105A	...	—					
157	1706	2B7	...	4						187	1627	5D/100A	...	—					
158	1707	2A5	...	4						188	1727	Z22	...	—					
159	1708	80	...	35						189	1128	GT1c	...	80					
160	1709	6D6	...	16						190	1728	WE262B	...	—					
161	1710	6C6	...	15						191	1628	GU8	...	—					
162	1711	6B7	...	13						193	1100	KTW6I	...	86					
163	1712	42	...	33						194	587	6Q7	...	19					
164	1713	EF8	...	74						195	1863	5Z4	...	10					
165	1714	IF9	...	74						196	509	6V6	...	20					
166	1715	EBC3	...	71						197	1629	RG3-1250A	...	—					
167	1716	E154I	...	—						198	1075	KT66	...	86					
168	1626	RG10240A	...	—						199	124	807	...	40					
169	1717	4307A	...	—						200	1065	SP6I	...	104					
170	1718	AC/TP	...	55						201	1056	EF36	...	74					
171	1719	U22	...	108						202	1054	EB34	...	71					
177	1720	XLI.5	...	121						203	9	AL60	...	56					
178	1721	XPI.5	...	121						204	18	DET19	...	64					
179	1722	A90I	...	53						205	1630	ESP450	...	—					
180	1053	EF39	...	74						206	1120	SU2150A	...	105					
										207	1091	EF50	...	74					

B.V.A. UTILITY EQUIVALENTS

The last figure of this number denotes the manufacturer and can be disregarded.

E.g., all the 260 series are equivalent to an EL.33.

B.V.A. No.	Civilian No.	Page	B.V.A. No.	Civilian No.	Page	B.V.A. No.	Civilian No.	Page
132	HL23DD	81	172	TP25	107	264	EL33	76
142	VP23	116	211	DW4/350	68	274	ECH35	73
162	Pen25	93	243	EF29	74			

TEST DATA FOR RECEIVING AND SMALL TRANSMITTING VALVES

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
OZ4	007 060 010		—		250		58	3K Ω	No Data Available			A08	CCR
OO	364 200 000		5	0	40		1·	0·66	No Data Available			UX4	T
OOA	364 200 000		5	0	45		1·5	0·66	No Data Available			UX4	T
OI	364 200 000		5	4·5	90		2·5		80			UX4	T
OIA	364 200 000		5	9	125		3	0·8	80		0·72	UXA	T
OIAA	364 200 000		5	4·5	90		3·2	0·90	90		0·85	UX4	T
OIB	364 200 000		5	4·5	90		2·5	0·72	90		0·82	UX4	T
O84	642 300 000		4	2·0	125		4·0	1·4	125		1·4	B4	T
I	281 300 000		6				60		REC		20mA	UX4	R
IA3	281 008 300		1·4						D			B7G	D
IA4E	365 200 000	G ₁	2	3	150	75	2·2	0·65	100	75	0·6	UX4	P
IA4P	365 200 000	G ₁	2	3	90	75	2·2	0·72	80	75	0·7	UX4	P
IA4T	265 300 000	G ₁	2	3	150	75	2·2	0·625	100	75	0·6	UX4	P
IA5	036 540 200		1·4	4·5	90	90	4	0·85	80	75	0·8	A08	P
IA6	266 453 000	G ₁	2	0	150	75	3	0·425	80	60	0·4	UX6	P
IA7	026 546 300	G ₁	1·4	0	90	50	1·8	0·55	80	60	0·5	A08	H
IAB5	365 004 220		1·2	1·5	150	150	6·8	1·35	100	100		B8B	P
IAB6	265 461 300		1·4	4·1	60	60	1·65	0·1	No Data Available			B7G	H
IAC5	*4* 23* 650		1·25	4·5	60	60	2·0	0·75	60	60	0·75	B8D	P
IAC6	266 464 300		1·4	4·0	60		4	2·2	80			B7G	H
IAD4	652 430 000		1·25	1·6	90	90	5·7	2·3	80	75	2	B5A	P
IAD5	*4* 23* 650		1·25	3·0	60	60	1·85	0·73	60	0·73	0·73	B8D	P
IAE4	265 024 300		1·25	0	90	90	3·5	1·55	90	90	1·55	B7G	P
IAF4	265 024 300		1·4	0	90	90	1·65	0·95	80	90	0·9	B7G	P
IAF5	208 564 300		1·4	0	90	90	1·1	0·6	80	90	0·6	B7G	DP
IAH5	208 564 300		1·4	1·5	60	60	0·17	0·17	60	60	0·17	B7G	DP
IAJ4	265 *24 300		1·4	0·8	75	75	1·4	0·65	80	75	0·75	B7G	P
IAN5	265 224 300		1·4	0	60	60	1	0·75	80	75	0·8	B7G	P
IAS4	265 024 300		1·4	0	90	90	1·6	0·85	100	90		B7G	P
IAX2	230 232 032	D ₁	1·4						D			B9A	D
IB3	020 000 300	D ₁	1·25						D			A08	R
IB4P	365 200 000	G ₁	2	3	90	75	1·6	0·6	80	60	0·6	UX4	P
IB4(T)	265 300 000	G ₁	2	2	175	75	1·7	0·65	100	60	0·6	UX4	P
IB5	268 943 000		2	3	130		0·8	0·57	100		0·5	UX6	DDT
IB6	265 406 300		1·4	1·5	90	75	1·5	0·75	80	75	0·75	B7G	P
IB7	026 546 300	G ₁	1·4	0	90	50	1·5	0·875	80	60	0·8	A08	H
IB8	037 546 280		1·4	{ 0 6	90	0	0·15	0·27	80		0·15	A08	DTP
IC	289 300 000		6		90	90	6·3	1·15	80	75	1·1		
ICI	266 424 300		1·4	4	75		1·0	D				UX4	D
IC2	266 464 300		1·4	4	60		4·5	1·2	80		1·4	B7G	H
							4	1·2	80		1·4	B7G	H
IC3 (U.S.A.)	260 406 300		1·4	3	90		1·4	0·76	80		0·7	B7G	T
IC4	365 200 000	G ₁	2	0	175	75	2·5	1	150	75	1	UX4	P
IC5	036 540 200		1·4	7·5	90	90	7·5	1·55	80	75	1·5	A08	P
IC6	366 452 000	G ₁	2	0	175	75		1·05	150	75	1·05	UX6	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
IC7	026 546 300	G ₁	2	0	175	75		1.05	150	75	1.05	A08	H
IC8	240 236 540		1.25	0	30	30	.3		No Data Available			B8D	H
ID3	402 306 060		1.2	5	90		12.5	3.4	100		3.4	B8A	T
ID4	264 530 000		2	6	175	175	9.5	2.4	100	100		UX5	P
ID5	802 310 000		40				120		REC		60mA	B5	R
ID5eg	026 500 300	G ₁	2	3.0	125	60	2.2	0.68	100	60	0.6	A08	P
ID5GP	036 500 200	G ₁	2	3	90	75	2.2	0.72	80	60	0.7	A08	P
ID5GT	036 500 200	G ₁	2	3	150	75	2.2	0.65	100	60	0.6	A08	P
ID6	280 183 000		25				60		REC		60mA	UX6	R
ID7	036 546 200	G ₁	2	0	150	75	3	0.425	150	75	1.05	A08	P
ID8	037 546 280	G ₁	1.4	{ 0 9	90	0	1.1	0.575	80	60	0.5	A08	DTP
ID13	281 0*8 300		1.4		90	90	5	0.925	80	75	0.9		
IE3	402 203 060		1.2	0	150		20	3.5	100			B7G	D
IE4	026 040 300		1.4	3	90		1.4	0.76	80		0.76	B9A	T
IE5GP	036 500 200	G ₁	2	3	90	75	1.6	0.6	80	60	0.6	A08	P
IE5	036 500 200	G ₁	2	3	175	75	1.7	0.65	100	60	0.6	A08	P
IE7	036 447 250		2	4.5	150	150	7.5	1.435	100	100	1.4	A08	PP
IE8	240 236 540		1.25	0	60	60	1.8	0.74	No Data Available			B8D	H
IF1	265 024 300		1.4	0.8	75	75	1.4	0.65	80	60	0.75	B7G	P
IF2	265 024 300		1.4	1	90	75	2.9	0.92	80	75	0.92	B7G	P
IF3	265 024 300		1.4	1	90	50	1.9	0.75	80	60	0.75	B7G	P
IF4	364 520 000		2	3	90	90	4	1.4	80	75	1.4	UX5	P
IF5	036 540 200		2	3	90	90	4	1.4	80	75	1.4	A08	P
IF6	365 892 000	G ₁	2	1.5	175	75	2.2	0.65	150	75	0.6	UX6	DDP
IF7	036 985 200	G ₁	2	1.5	175	75	2.2	0.65	150	75	0.6	A08	DDP
IF7GV	036 895 200	G ₁	2	1.5	175	75	2.2	0.65	150	75	0.6	A08	DDP
IFDI	2*8 564 300		1.4	1.5	60	60	0.17	0.17	80	60	0.17	B7G	DP
IFD9	208 564 300		1.4	1	75	75	1.6	0.63	80	75	0.63	B7G	DP
IG4	036 040 200		1.4	6	90		2.3	0.825	80		0.825	A08	T
IG5	036 540 200		2	6	90	90	8.5	1.5	80	75	1.5	A08	P
IG6	026 447 300		1.4	0	90		1.0	0.675	80		0.67	A08	TT
IH4	026 040 300		2	9	150		3	0.9	100		0.9	A08	T
IH5	036 080 200	G ₁	1.4	0.5	100		0.13	0.22	80		0.27	A08	DT
IH6	036 894 200		2	3	150		0.8	0.575	100		0.57	A08	DDT
IJ5	036 540 200		2	16.5	150	150	7	0.95	100	100	0.9	A08	P
IJ6	026 447 300		2	3	150		1.7		100			A08	TT
IJ6GX	026 447 300		2	0	125		2		125			A08	TT
IK4	365 200 000	G ₁	2	0	150	75	2.5	1.05	150	75	1.05	UX4	P
IK5	026 500 300	G ₁	2	0	125	75	2.5	1.05	125	75	1.05	A08	P
IK5B	026 500 300	G ₁	2	0	125	75	2.5	1.05	125	75	1.05	A08	P
IK6	369 852 000	G ₁	2	3	150	90	0.9	0.6	100	75	0.6	UX6	DDP
IK7	026 895 300	G ₁	2	4.5	125	150	1.5	0.7	100	100	0.7	A08	DDP
IL4	265 024 300		1.4	0	90	75	2.9	0.925	80	75	0.9	B7G	P
IL5	026 540 300		2	6	175	175	9.5	2.4	100	150	2.4	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
IL6	266 451 300		1.4	0	90	50	4	0.55	80	60		B7G	H
IL60	642 300 000		1.0		150		6.0	1.2	150		1.2	B4	T
ILA4	365 004 020		1.4	4.5	90	90	4	0.85	80	75	0.85	B8B	P
ILA4E	365 004 020		1.4	4.5	90	90	3.5	0.8	80	75	0.8	B8B	P
ILA6	366 454 020		1.4	0	90	50	1.8	0.55	80	60	0.5	B8B	H
ILA6E	366 454 020		1.4	0	90	50	1.8	0.55	80	60	0.5	B8B	H
ILB4	365 004 020		1.4	9	90	90	5	0.925	80	75	0.9	B8B	P
ILB6	276 554 430		1.4	0	75		1.2		80			B8B	H
					90	75	0.4		80	75			
ILC5	365 124 020		1.4	0	90	50	1.15	0.775	80	60	0.77	B8B	P
ILC6	266 454 030		1.4	0	90	50	3	0.55	80	60	0.5	B8B	H
ILD5	365 804 020		1.4	0	90	50	0.6	0.578	80	60	0.5	B8B	DP
ILE3	350 0*4 020		1.4	3	90		1.4	0.76	80		0.76	B8B	T
ILF3	360 004 020		1.4	3	90		1.4	0.76	80		0.76	B8B	T
ILG5	365 124 020		1.4	1.5	90	90	3.7	1.15	80	90	1.15	B8B	P
ILH4	260 804 020		1.4	0	90		0.15	0.275	80		0.27	B8B	DT
ILN5	365 124 020		1.4	0	90	90	1.6	0.8	80	90	0.8	B8B	P
ILN5E	365 124 020		1.4	0	90	90	1.6	0.8	80	90	0.8	B8B	P
IM5G	036 500 200	G ₁	2	0	150	75	2.5	1	150	75	1	A08	P
IN5	036 500 200	G ₁	1.4	0	90	90	1.2	0.750	80	90	0.75	A08	P
IN6	036 548 200		1.4	4.5	90	90	3.4	0.8	80	75	0.8	A08	DP
IPI	365 024 300		1.4	5.2	90	90	5.0	1.4	80	75	1.4	B7G	P
IP5	036 500 200	G ₁	1.4	0	90	90	2.3	0.75	80	90	0.75	A08	P
IPI0	264 536 200		1.4	7	90	75	7.4	1.57	80	60	1.57	B7G	P
IPI1	365 024 300		1.4	4.5	90	90	9.5	2.15	80	75	2	B7G	P
IQ5	036 540 200		1.4	4.5	90	90	9.5	2.2	80	75	2.2	A08	P
IQ6	040 238 650		1.25	0	60	60	1.6	0.6	No Data Available			B8D	DP
IR	026 510 300	G ₁	1.4	0	90	90	1.2	0.75	80	90	0.75	A08	P
IR4	200 800 130		1.4						D			B8B	D
IR5	266 424 300		1.4	4	75		4.5	1.2	80		1.4	B7G	H
IS2A	32* 323 *23	D ₁	1.4						D			B9A	D
IS4	264 526 300		1.4	7	90	75	7.4	1.575	80	60	1.5	B7G	P
IS5	208 564 300		1.4	0	75	75	1.6	0.625	80	75	0.625	B7G	DP
IS6	604 238 050		1.2	0	60	60	1.6	0.6	No Data Available			B8D	DP
ISA6	021 405 360		1.4	0	90	75	2.45	0.97	80	75	0.97	A08	P
ISB6	036 580 240		1.4	0	90	75	1.45	0.665	80	75	0.66	A08	DP
IT	036 500 320	G ₁	1.4	4.5	90	90	0.9	2.1	80	75	2.1	A08	P
IT2	123 000 000	D ₁	1.4						D			B3G	D
IT4	265 024 300		1.4	0	90	75	3.5	0.9	80	75	0.9	B7G	P
IT5	036 540 200		1.4	6	90	90	6.5	1.15	80	75	1.15	A08	P
IT6	604 238 050		1.2	0	60	60	1.6	0.6	No Data Available			B8D	DP
IU4	265 024 300		1.4	0	90	90	0.8	0.68	80	90	0.9	B7G	P
IU5	265 804 300		1.4	0	75	75	1.6	0.625	80	75	0.6	B7G	DP
IU6	266 451 300		1.4	0	75	50	1.7	0.3	No Data Available			B7G	H
IV	281 300 000		6				60		REC			20mA	UX4 R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
IV2	8** 230 **8		0-625						D			B9A	D
IV4	260 *24 300		1-25	0	125	100	1-6		125	100		B7G	P
IV5	*4* 23* 650		1-2	4-5	60	60	2	0-75	No Data Available			B7G	P
IW4	265 004 300		1-4	9	90	90	5	0-925	80	75	0-9	B7G	P
IW5	040 230 650		1-25	0	60	60	1-8	0-73	No Data Available			B8A	P
IW50	642 300 000		1						D			B4	D
IX2	230 232 032	D ₁	1-25						D			B9A	R
IY2	200 300 000	D ₁	1-4						D			UX4	R
IZ1	020 000 300	D ₁	0-7						D			A08	D
IZ2	232 232 300	D ₁	1-25				2		D			B7G	R
2	642 300 000		2	4	150		1-5		100			B4	T
2/25A	200 300 000	D ₁	6				30		REC		18mA	UX4	R
2/50A	200 300 000	D ₁	5				60		REC		20mA	UX4	R
2A3	264 300 000		2-5	45	250		60	5-2	100		5-2	UX4	T
2A3H	364 200 000		2-5	62	300		40	5-25	100		5-25	UX4	T
2A5	265 413 000		2-3(3)	16-5	250	250	34	2-5	100	PenLF	2-5	UX6	P
2A6	269 913 000	G ₁	2-5	2	250		0-9	1-11	150		1-1	UX6	DDT
2A7	265 541 300	G ₁	2-5	8	250	100	3-5	1-15	150	100	1-1	Sm7	H
2AF4	642 314 600		2-5	4-0	100		15	6-6	80		6-0	B7G	T
2B3	*20 000 3*0	D ₁	1-7						D			A08	D
2B5	267 413 000		2-5		300		9		No Data Available			UX6	TT
2B7	265 891 300	G ₁	2-5	3	250	125	9	1-125	100	100	1-12	UX7	DDP
2B7S	265 891 300	G ₁	2-5	3	250	100	6	1	100	100	1	UX7	DDP
2B21	300 200 000	D ₁	2-5				5		D			UX4	R
2B22	021 010 310	D ₁	6						D			A08	D
2B25	200 800 300		1-4						D			B7G	D
2B26	280 300 000		2-5				120		REC		30mA	UX4	R
2B35	123 000 000	D ₁	6						D			B3G	D
2B36	123 000 000	D ₁	4						D			B3G	D
2BN4	142 361 400		2	1-5	150		9	6-8	100		7-0	B7G	T
2C21	217 461 300	G ₁	6	16-5	250		8-3	1-375	100		1-37	UX7	TT
2C22	020 000 310	A ₁ G ₁	6	10-5	300		11	3	100		3	A08	T
2C23	264 300 000		7-5	32	350		16	1-55	100		1-5	UX4	T
2C26	264 300 000		7	100	350		50		No Data Available			UX4	T
2C26	020 000 310	A ₁ G ₁	6	15	350		16		100			A08	T
2C48	265 004 130		6	15	250	250	70		100	150		B8B	P
2C50	265 004 130		12	15	250	250	70		100	150		B8B	P
2C51	214 607 413		6	2	150		8-2	5-5	125		5-5	B9A	TT
2C52	461 471 230		12-5	2	250		1-3	1-9	200		1-9	A08	TT
2CY5	412 365 100		2-5	1	125	80	10	9	125	75	8	B7G	P
2D1	289 130 000		2-5						D			UX5	DD
2D2	892 310 000		2						D			B5	DD
2D4	892 310 000		4						D		4-5	B5	DD
2D4A	892 310 000		4						D		4-5	B5	DD
2D4B	091 231 800		4						D			B7	DD

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
2D13	023 180 000	D ₃							D			B5	DD
2D13a	823 190 000		13						D			B5	DD
2D13C	892 310 000		13						D			B5	DD
2D21	412 316 100		6		400		50	6kΩ	No Data Available			B7G	Thyratron
2E22	254 130 000	A ₁	6	15	400	250	60	5.5	100	PenLF		UX5	P
2E24	235 242 300	A	3	18.5	400	200	16	3.2	200	100	3.2	A08	P
2E25	020 540 320		6	22.5	400	250	40		No Data Available			A08	P
2E26	125 141 300	A	6	20	200	200	20	3.5	100	75	3.5	A08	P
2E30	413 365 200		3	20	250	250	40	3.7	100	PenLF	3.7	B7G	P
2E31	652 430 000		1.25	0	20	20	0.4	0.5	No Data Available			B5A	P
2E32	652 430 000		1.25	0	20	20	0.4	0.5	No Data Available			B5A	P
2E35	652 430 000		1.25	0	20	20	0.27	0.38	No Data Available			B5A	P
2E36	652 430 000		1.25	0	20	20	0.27	0.38	No Data Available			B5A	P
2E41	658 243 000		1.25	0	20	20	0.36	0.37	No Data Available				P
2E42	658 243 000		1.25	0	20	20	0.35	0.37	No Data Available				P
2E50	412 265 300		6	20	250	250	10	3.4	100	100		B7G	P
2F7	275 641 300	G ₁	2.5	{ 3.0 3.0	100		4.00		100	60	3.8	UX7	TP
					250	100	2.8		100	100			
2HMD	452 310 000	A ₁ A ₂	4		200	100	3.8	1.14	100	100	1.1	B5	PP
2K2	026 500 300	G ₁	2	2.0	100	100	2.5	0.9	100	100	0.9	A08	P
2P	642 300 000		2	22	250		40	7	100		7	B4	T
2S	289 130 000		2.5				15		REC		10mA	UX5	RR
2T4	642 314 600		2.3	2.7	75		18	7	75		7	B7G	T
2T/270K	112 311 100	D ₁	4						REC		5mA	B7G	R
2U14	642 300 000		2		125		2	0.6	125		0.6	B4	T
2U15	642 300 000		2		150		4	0.8	100		0.8	B4	T
2V2	020 000 03*	D ₁	2.5						D			A08	D
2V3	020 000 300	D	2.5 (3)						D			A08	R
2W3	020 800 030		2.5			60			REC		20mA	A08	R
2X2	300 200 000	D ₁	2.5 (3)				1		D			UX4	R
2X2A	300 200 000	D ₁	2.5 (3)				1		D			UX4	R
2X3	020 800 030		2.5				120		REC		30mA	A08	R
2XP	642 300 000		2	36	300		50	7	100		7	B4	T
2Y2	200 300 000	D ₁	2.5				5		D			UX4	R
2Z2	280 300 000		2.5				60		REC		20mA	UX4	R
3	642 300 000		2	7.5	150		3.4	0.9	100		0.9	B4	T
3A2	230 232 032	D ₁	3						D			B9A	D
3A3	*2* 0*0 3*0	D ₁	3						D			A08	D
3A4	365 426 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
3A5	264 347 200		1.4	2.5	90		3.7	1.8	80		1.8	B7G	TT
3A8	237 546 380	G ₁	1.4	{ 0 0	90	0	0.2	0.325	80	60	0.32	A08	DTP
					90	90	1.2	0.75	80	60			
3A/107A	264 300 000		4	8	125		6.5	1.6	100		1.6	UX4	T
3A/107B	642 300 000		4	8	125		6.5	1.6	100		1.6	B4	T
3A/108A	264 300 000		2	1.5	125		0.9	0.5	100		0.5	UX4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
3A/108B	642 300 000		2	1.5	125			0.9	100		0.5	B4	T
3A/109A	264 300 000		4	8	125		19	1.2	100		1.2	UX4	T
3A/109B	642 300 000		4	8	125		19	1.2	100		1.2	B4	T
3A/154M	260 0*4 130		6	2	250		12	3	100		3	B8B	T
3AF4A	642 314 600		3	4	100		15	6.6	100		7.5	B7G	T
3AL5	192 310 800		3				5		D			B7G	DD
3AU6	412 365 100		3	1.0	250	150	10.0	5.2	100	150	5.00	B7G	P
3AV6	412 398 600		3	2.0	250		1.2	1.6	200		1.6	B7G	DDT
3AY6	412 389 600		3	2.0	250		1.2	1.6	200		1.6	B7G	DDT
3B2	*2* 0** 3*0	D ₁	3						D			B8A	D
3B4	524 332 600		1.25	7.5	150	125		1.7	No Data Available			B7G	R
3B5	036 540 320		1.4	7	75	75	6.7	1.5	80	60	1.5	A08	P
3B7	364 204 730		1.4	0	90		5.2	1.85	80		1.85	B8B	TT
3B21	289 300 000		2.5				120		REC		30mA	UX4	RR
3B22	289 300 000		2.5				120		REC		30mA	UX4	RR
3B23	200 300 000	D ₁ D ₂	2.5				120		REC		30mA	UX4	RR
3B24	320 200 000	D ₁	2.5				30		REC		15mA	UX4	R
3B25	200 300 000	D ₁	2.5				120		REC		15mA	UX4	R
3B26	020 000 200	D ₁	2.5				15		REC		10mA	A08	R
3B27	280 300 000		2.5				120		REC		30mA	UX4	R
3B/240M	214 444 130	A	6	1	300		50	27	No Data Available			B8B	T
3B/241M	214 444 130	A	19	1	300		50	27	No Data Available			B8B	T
3B/252B	642 310 000		6	20	400		60	10	100		8	B5	T
3BA6	412 365 100		3	1.0	250	100	11.0	4.4	100	100	4.4	B7G	P
3BC5	412 365 100		3	1.3	250	150	7.5	5.7	100	150	5.8	B7G	P
3BE6	412 366 100		3	2.0	100		11	7.0	100		5.0	B7G	H
3BN4	142 361 400		2.8	2	150		9	6.8	100		6	B7G	T
3BN6	412 354 600		3	1.0	60	60	0.25	1.0	80	60	1.0	B7G	P
3BU8	157 231 461		3	1.0	100	60	1	1.5	100	60	1.5	B9A	PP
3BY6	412 365 400		3	2.5	250	100	6.5	2.4	100	100	2.0	B7G	H
3BZ6	412 365 100		3	1.0	125	125	14.0	8.0	200	150	6.0	B7G	P
3C2	020 *3* 2*0		1.5						D			A08	D
3C4	365 *24 300		1.4	5.2	90	90	5.0	1.4	80	75	0.75	B7G	P
3C5	036 540 320		1.4	9	90	90	6	1.4	80	75	1.4	A08	P
3C6	206 447 320		1.4	0	90		4.5	1.3	80		1.3	B8D	TT
3C36	412 365 100		3	2.2	200	150	9.5	6.2	100	150	6.0	B7G	P
3CB6	412 365 100		3	1.0	125	125	13.0	8.0	100	150	6.0	B7G	P
3CF6	412 365 100		3	1.0	125	125	12.0	7.8	100	150	6.0	B7G	P
3CS6	412 365 100		3	1.0	100	30	1.0	1.1	100		1.1	B7G	H
3D6	365 004 230		1.4	4.5	150	90	10.2	2.4	100	75	2.4	B8B	P
3DT6	412 365 100		3	2.2	150	100	1.1	0.8	150	100	2.0	B7G	P
3E5	365 024 300		1.4	8	90	90	6	1.2	80	75	1.2	B7G	P
3E6	265 134 020		1.4	0	90	90	2.5	1.8	90	90	1.8	A08	P
3GI0	892 300 000		2.5				30		REC		15mA	B4	RR
3GI30	892 300 000		2.5				30		REC		15mA	B4	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE I60					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
3LE4	365 004 230		1.4	9	90	90	1.8	1.6	80	75	1.6	A08	P
3LF4	365 004 230		1.4	4.5	90	90	8	2	80	75	2	B8B	P
3Q4	364 526 300		1.4	5	90	90	6.9	1.975	80	75	1.9	B7G	P
3Q5	036 540 320		1.4	4.6	90	90	9.0	2	80	75	2	A08	P
3S4	364 526 300		1.4	7	90	75	7.4	1.574	80	60	1.5	B7G	P
3V4	365 024 300		1.4	4.5	90	90	7.7	2	80	75	2	B7G	P
4	642 300 000		2	1	150		1	0.9	150		0.9	B4	T
4/100BU	892 300 000		4				120		REC		30mA	B4	RR
4A6G	026 447 230		2	1.5	90		1.2	0.9	80		0.9	A08	TT
4A07	642 300 000		4	2	100		1.4	1.2	100		1.2	B4	T
4A08	642 300 000		4		150		4	1.8	100		1.0	B4	T
4A10	642 300 000		4	2.5	125		6	1.8	125		1.8	B4	T
4A15	642 300 000		4		100		7	2.2	100		2.2	B4	T
4A80	642 310 000		4		150		6	2	150		2	B5	T
4A90	642 310 000		4		200		8	3.5	100		3.0	B5	T
4A120	642 310 000		4		125			1.4	125	1	1.4	B5	T
4AU6	412 365 100		4	1	250	150	10	5.2	100	50	5.2	B7G	P
4BA6	412 365 100		4.2	1	250	100	11	4.4	100	100	4.4	B7G	P
4BC5	412 365 100		4.2	1.3	250	150	7.5	5.7	100	150	5.7	B7G	P
4BC8	741 236 410		4.2	2.2	150		10.0	6.2	150		5.0	B9A	TT
4BE6	412 366 100		4.2	2	100		11	7	100		5	B7G	H
4BN6	142 354 600		4.2	1	60	60	0.25	1.0	80	60	1.0	B7G	P
4BQ7A	741 236 410		4	2.0	150		9.0	6.4	100		6.0	B9A	TT
4BS8	641 237 410		4.2	4.4	150		10	7.2	100		7	B9A	TT
4BU8	157 231 461		4.2	1	150	100	4	3.5	150	100	3.5	B9A	PP
4BX8	641 237 410		4.2		125		11	7.5	125			B9A	TT
4BZ7	741 236 410		4	2.2	150		10.0	6.8	100		6.0	B9A	TT
4BZ8	641 237 410		4.2	2	125		10	8	125		8	B9A	TT
4C1	264 300 000		3	3	90		5	1	80		1	UX4	T
4C1A	364 200 000		3	3	90		5	1	90		1	UX4	T
4C2	642 310 000		4	5	125		11	2.5	125		2.5	B5	T
4C3	642 310 000		4	3.5	200		6	2.4	100		2.0	B5	T
4C4	642 310 000		4	3.5	200		6	2.4	100		2.0	B5	T
4C5	642 300 000		4	10	400		30	4	No Data Available			B4	T
4C102	642 300 000		4	45	250		40	2	No Data Available			B4	
4C103	642 300 000		4	35	225		45	3.5	No Data Available			B4	T
4CB6	412 365 100		4.2	1	125	125	13	8	125	125	8	B7G	P
4CE5	412 365 100		4.2	1	125	125	11	7.6	125	125	7.6	B7G	P
4CX7	641 237 410		4.2	10	150		9	6.4	150			B9A	TT
4CY5	412 365 100		4.2	1	125	80	10	8	125	75	8	B7G	P
4D1	000 231 600	G ₁	13	3	250	10	5	100			4	B7	T
4D80	642 310 000		4		100	2	1	100			1	B5	T
4G30	892 300 000		4				15		D			B4	RR
4G105	892 300 000		4				30		REC		15mA	B4	RR
4G200	892 300 000		4				60		REC		20mA	B4	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4H07	642 300 000		4		150		3	1.1	100		1.0	B4	T
4H08	642 300 000		4		150		5	1.2	100		1.0	B4	T
4H80	642 310 000		4		200		6	2	100		0.2	B5	T
4K30	642 300 000		4	10	150		20	3.6	100		3.0	B4	T
4K32	642 300 000		4	15	200		30	3.6	100		3.0	B4	T
4K50	642 300 000		4	20	200		60	5	No Data Available			B4	T
4K60	642 300 000		4	20	300		60	3.5	No Data Available			B4	T
4K61	642 300 000		4		300			3	No Data Available			B4	T
4K100	642 300 000		4	3	300	200	50	4	No Data Available			B4	T
4L11	642 300 000		4		150		7	1.4	100		1.0	B4	T
4L12	642 300 000		4		150		9	2	100		1.5	B4	T
4L13	642 300 000		4		200		8	2	100		2	B4	T
4L13a	642 300 000		4	11	200		14	2.5	100			B4	T
4L14	642 300 000		4		200		10	2.2	No Data Available			B4	T
4L15	642 300 000		4		100			2.2	100		2.2	B4	T
4L16	642 300 000		4	8	150		100	2.2	100		2.0	B4	T
4L20	642 300 000		2		100			1.4	100		1.4	B4	T
4L28	642 300 000		4	4	150		10.5	4	100		3.0	B4	T
4L29	642 300 000		4	8	150		20	3.6	100			B4	T
4LMBT	642 310 000		4	1	200		3.4	2.6	100		2	B5	T
4N08	642 300 000		4		100		8	1.2	100		1.2	B4	T
4N100	642 310 000		4		150			3.5	100		3	B5	T
4N110	642 310 000		4		200		5	1.5	100		1.3	B5	T
4NG	892 300 000		4				30		REC		15mA	B4	RR
4P25	642 300 000	G ₂	4	19	250	150	12	1.3	100	100		B4	P
4S	289 130 000		2.5						D			UX5	D
4S09	542 300 000	A ₁	4		200		1	0.6	100			B4	P
4S120	542 310 000	A ₁	4		200		2	0.7	100	100		B5	P
4S121	542 310 000	A ₁	4		200	100	6	1.0	100	100		B5	P
4S126	542 310 000	A ₁	4	2	200	100	3	2	100	100		B5	P
4THA	645 231 700	G ₁	4	{ 5 2	100 250		1.5 3.5	1.5 2.5	80 100	60 100	1.5 2.2	B7	TH
4TP	446 231 500	A ₂	4	5	150	150	16	4.5	150	100	4.5	B7	TP
4TPB	061 321 500	G ₁	4	3	250	150	12	8	100	100	7	B7	P
4TSA	045 231 600	A ₁	4	0	250	100	5.0	1.6	250	100	1.6	B7	P
4TSP	041 231 500	A	4	3	250	150	12	8	100	100	7	B7	P
4W03	642 300 000		4		80		0.04	1.1	80		1.1	B4	T
4W03n	642 300 000		4		200		0.4	1.1	100		1.0	B4	T
4W08	642 300 000		4		150				100			B4	T
4W100	642 310 000		4		200		1.5	3.5	100		3	B5	T
4W120	642 310 000		4		200		2	0.07	100			B5	T
4W200	642 310 000		4		150			3.3	100		3	B5	T
4XP	642 300 000		4	28.5	250		48	5	100		7	B4	T
5A6	601 225 413		2.5	15	150	150	20		100	100		B9A	P
5A/102D	026 510 310	G ₁	7.5	18	175	150	42	2.5	100	100	2.5	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5A/136D	026 510 310	G ₁	7.5	5.5	250	150	5.2	2	100	100	2	A08	P
5A/137D	026 510 310		6.3	2	250	100	1.8		100	100		A08	P
5A/150A	265 113 000		10	5.5	250	150	5.2	2	100	100	2	UX6	P
5A/152M	265 104 130		6	2	250	150	10	7.5	100	100	5	B8B	P
5A/155M	256 101 403		6	2	250	250		6.5	100	100	5	B9G	P
5A/156M	265 114 113	G ₁	6	1.7	250	250	10	7.7	100	150	6	B9G	P
5A/157D	026 510 310		6	2	250	100		1.8	100	100	1.8	A08	P
5A/163K	141 236 115		6	1.5	200	200	15	15	No Data Available			B9A	P
5A/170K	141 230 615		6.3	1.5	175	150	13	16.3	No Data Available			B9A	P
5A/171G	102 513 410		6	5	100	100	20	2.7	100	100	2.5	B8D	P
5AM8	145 236 181		5	1.7	200	150	11.5	7.0	100	150	7.0	B9A	DP
5AN8	641 237 541		5	6.0	200		13.0	3.3	100	60	3.0	B9A	TP
5AQ5	412 365 400		5	2.2	200	150	9.5	6.2	100	150	6.0		
5AR4	*30 809 020		5	12.5	250	250	45.0	4.1	100	PenLF	4.0	B7G	P
5AS4	030 908 020		5				120		REC		30mA	A08	RR
							120		REC		30mA	A08	RR
5AS8	451 238 116		5	2.2	200	150	9.5	6.2	100	150	6.0	B9A	DP
5AT8	461 237 514		5	1.0	100		8.5	5.8	100	60	5.0	B9A	TP
				1.8	250	150	7.7	4.6	100	150	4.0		
5AU4	020 809 030		5				180		REC		40mA	A08	R
5AV8	146 234 157		5	6	200		13	3.3	100	60		B9A	TP
				2.2	200	150	9.5	6.2	100	100			
5AW4	020 809 030		5				120		REC		40mA	A08	RR
5AX4	020 809 030		5				60		REC		20mA	A08	RR
5AZ4	020 809 030		5				60		REC		20mA	B8B	RR
5B1	542 300 000	A ₁	2	1	150	90	2	1.3	150	90	1.3	B9A	P
				6	200		13	3.3	100	60	3	B9A	TP
5B8	146 234 157		5	1.8	200	150	9.5	6.3	100	150	6		
5B/110M	265 104 130		6	6	250	150	38	6.5	100	100	5	B8B	P
5B/250A	254 130 000	A	6	12.5	400	250	83	6.3	100	150	6	UX5	P
5B/251M	215 044 130	A	6	15	250	250	72	6	100	100	5	B8B	P
5B/252M	265 044 130		6	15	250	250	72	6	100	100	5	B8B	P
5B/253M	265 044 130		19	15	250	250	72	6	100	100	5	B8B	P
5B/254M	215 144 130	A	6	20	300	250	50	5.6	100	100	5	B8B	P
5B/255M	265 144 130		6	20	300	250	50	5.6	100	100	5	B8B	P
5B/256M	215 144 130	A	19	20	300	250	50	5.6	100	100	5	B8B	P
5B/257M	265 144 130		12	20	300	250	50	5.6	100	100	5	B8B	P
5BE8	461 237 414		4	1	150		18	8.5	100	60	7	B9A	TP
				1	250	100	10	5.2	150	100	5		
5BK7a	741 236 411		5	2	150		10.7	9.3	100		9	B9A	TT
5BQ7A	741 236 410		5.6	2	150		150	6.4	100		5	B9A	TT
5BR8	461 237 514		5	1.0	150		18	8.5	100	60	8	B9A	TP
				0.95	250	100	10	5.2	100	100			
5BT8	981 236 541		4.7	2.2	200	150	9.5	6.2	100	100		B9A	DDP
5BZ7	741 236 410		5.6	2.2	150		10	6.8	100		6	B9A	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5CG8	461 237 514		4-7	{ 0.85 1.5	100 250		8.5 7.7	5.8 4.6	100 100	60 100	5.8	B9A	TP
5CL8	461 237 514		4-7	{ 0.95 1	125 125	125	15 12	8 5.8	100 100	60 100	0.8 5.5	B9A	TP
5CM8	641 237 514		4-7	{ 2 2.2	250 200	150	1.8 9.5	2 6.2	100 100	60 100		B9A	TP
5CZ5	504 234 1*6		45	6.7	100	100	43	9	100	100		B9A	P
5DH8	461 237 514		5.2	{ 2.5 1	250 125	125	7 13	4.4 8.6	100 125		4 8.6	B9A	TP
5E255	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
5E415	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
5MK9	002 380 000		5				60		REC		20mA	B7G	R
§5J6	672 344 100		5	{ 0.85 3.0	100 150		8.5 5.0	5.3 4.5	100 100		5.3 5.3	B7G	TT
5T4A	041 231 500	A ₁	4	4.5	250	150	4.5	1.7	100	100		B7	P
5P29	120 540 310	A ₁	6	7	250	250	100	14.3	No Data Available			A08	P
5Q5	036 540 320		1.4	4.6	90	90	4.5	2	80	75	2	A08	P
5R4	020 809 030		5 (5-7)				60		REC		25mA	A08	RR
5R4GY	030 809 020		5 (5-7)				60		REC		20mA	A08	RR
5T4	020 809 030		5				120		REC		30mA	A08	RR
5T8	†91 238 146		5	3.0	250		1.0	1.2	150		1.3	B9A	DDDT
5U4	020 809 030		5 (5-7)				120		REC		70mA	A08	RR
5U8	645 237 114		5	{ 1.0 1.0	150 250	100	18.0 10.0	8.5 5.2	100 100	60 100	7.0 5.0	B9A	TP
5V3	020 809 030		5				120		REC		30mA	A08	RR
5V4	030 809 020		5 (5-7)				60		REC		60mA	A08	RR
5V6	026 540 310		4-7	12.5	250	250	45.0	4.1	100	PenLF	4.0	A08	P
5W4	020 809 030		5				60		REC		20mA	A08	RR
5X3	289 300 000		5				15		REC		10mA	A08	RR
5X4	008 090 230		5				120		REC		30mA	A08	RR
5X8	146 231 457		5	{ 1.0 1.8	100 250	150	8.5 7.7	5.8 4.6	100 100	60 150	5.0 4.0	B9A	TP
5Y3GB	030 809 020		5 (5-7)				60		REC		20mA	A08	RR
5Y3GR	020 809 030		5 (5-7)				60		REC		20mA	A08	RR
5Y3GT	020 809 030		5 (5-7)				60		REC		20mA	A08	RR
5Y4	008 090 230		5				60		REC		30mA	A08	RR
5Y4SG	008 090 230		5				60		REC		20mA	A08	RR
5Z3	289 300 000		5 (5-7)				120		REC		30mA	UX4	RR
5Z4	030 809 020		5 (5-7)				60		REC		40mA	A08	RR
5Z4G	030 809 020		5 (5-7)				60		REC		40mA	A08	RR
6/30L2	741 236 410		6.3	7.9	200		10	3.4	100	100	3	B9A	TT
6A3	264 300 000		6	36	250		60	5.25	100		5	UX4	T
6A4	264 530 000		6	9	150	150	14	1.9	100	100	1.9	UX5	P
6A5	026 040 310		6	45	250		60	5.25	100		5	A08	T

§ See note on Page 5 regarding Grid Bias.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6A6	274 146 300		6	5	250		3.0	1.6	100		3.1	UX7	TT
6A7	265 541 300	G ₁	6	8	250	100	3.5	1.15	100	100	1.15	Sm7	H
6A7E	265 541 300	G ₁	6	8	250	100	3.5	1.15	100	100	1.15	Sm7	H
6A7S	265 541 300	G ₁	6	8	250	100	3.5	1.15	100	100	1.15	Sm7	H
6A8GT	026 545 310	G ₁	6	8	250	100	3.5	1.15	100	100	1.15	A08	H
6AB4	602 304 100		6	2	250		10	5.5	100		5.5	B7G	T
6AB7	021 415 360		6	3	300	200	12.5	5	100	150	5	A08	P
6AB8	641 237 154		6	2	100	0	4	1.4	100	60	1.4	B9A	TP
				8.0	200	200	17.5	3.5	100	150	3.5		
6AC5	026 040 310		6	0	250		2.5		No Data Available			A08	T
6AC7	021 415 360		6	2	300	150	10	9	100	100	8	A08	P
6AD4	402 013 080		6	11.5	100		1.4	2	100		2	B8B	T
6AD5	026 040 310		6	2	250		0.9	1.5	200		1.5	A08	T
6AD7	427 546 310		6	25	250	0	4	0.325	100	60	0.32	A08	TP
				16.5	250	250	34	2.5	100	PenLF	2.5		
6AD8	541 236 891		6	2.0	250	90	6.7	1.1	100	90		B9A	DDP
6AE5	026 040 310		6	15	100		7	1.2	80		1.2	A08	T
6AE6	026 740 310		6	1.5	250		6.5	1	200		1	A08	TT
6AE7	026 414 310		6	13.5	250		10	3	100		3	A08	TT
6AE8	541 237 46*		6	2	100		5.2	2.2	100	60	2.8	B9A	TH
				2	250	90	3.5		150	90			
6AF4	642 314 600		6	4	100		15	6.6	80		6	B7G	T
6AF4A	642 314 600		6	3	100		20	7.5	100		7.5	B7G	T
6AF5	026 040 310		6	18	175		7	1.5	100		1.5	A08	T
6AG5	412 365 100		6	1.5	250	150	6.5	5	100	100	5	B7G	P
6AG6	026 540 310		6	6	250	250	32	10	100	PenLF	9	A08	P
6AG7	120 415 360		6	3	300	150	30	11	100	100	410	A08	P
6AH4	420 060 310		6	23	250		30	4.5	100			A08	T
6AH5	520 604 310		6	18	350	250	54	5.2	100	PenLF	5	A08	P
6AH6	412 365 100		6	2	300	150	10	9	100	100	8	B7G	P
6AH7	461 471 230		6	16	250		10	2.2	100		2.2	A08	TT
6AH7GT	417 146 230		6	9	250		12	2.4	100		2.4	A08	TT
6AJ4	414 464 234		6	2	125		8	7	100		10	B9A	T
6AJ5	412 365 100		6	7.5	175	75	2.9	2.75	100	75		B7G	P
6AJ7	020 415 360		6		300	150	10.0	9.0	150	150	0.75	A08	P
6AJ8	541 237 164		6	3.0	100		5.0	2.3	100	60	2.3	B9A	TH
				2.0	250	100	6.5	2.4	150	100	2.4		
6AK4	402 013 060		6	2.5	200		9.5	3.8	100		3	B8D	T
6AK5	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
6AK6	412 365 100		6	9	175	175	15	2.3	100	100	2.3	B7G	P
6AK7	120 415 360		6	3	300	150	30	11	100	100	9	A08	P
6AK8	†91 238 146		6	3.0	250		1.0	1.2	100		1.3	B9A	DDDT
6AL5	192 310 800		6						D		6.0	B7G	DD
6AL6	020 540 310	A	6	14	250	250	72	6	100	PenLF	6	A08	P
6AM4	414 464 234		6	1.0	200		10	9.8	100		6	B9A	T

VALVE	SELECTOR SWITCH No.	T.C.	V _f	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	I _a mA	mA/V	Anode Volts	Screen Volts	mA/V		
6AM5	412 360 500		6	13.5	250	250	16	2.6	100	PenLF	2.6	B7G	P
†6AM6	412 361 500		6	2	250	250	10	7.5	100	PenLF	5	B7G	P
6AM8	145 236 181		6	1.5	200	150	4	6.4	100	PenLF	5	B7G	P
6AN4	642 314 600		6	1.7	200	150	11.5	7.0	100	150	7.0	B9A	DP
6AN5	412 365 100		6	1.3	200		13	10	100			B7G	T
			6	6	125	125	35	8	100	100	7	B7G	P
6AN6	289 ††† 300		6						D			B7G	DDDD
6AN7	541 230 764		6	2.0	100		5.0	2.0	100	60	2.8	B9A	TP
			6	2.0	250	100	3.0	0.75	100	100		B9A	TP
6AN8	641 237 541		6	6	200		13	3.3	100	60	3	B9A	TP
			6	2.2	200	150	9.5	6.2	100	150	6	B9A	TP
6AQ4	412 314 600		6	2.0	250		6.0	8.5	200		8.0	B7G	T
6AQ5	412 365 400		6	12.5	250	250	45	4.1	100	PenLF	4	B7G	P
6AQ6	412 398 600		6	3	250		1.0	1.2	150		1.2	B7G	DDT
6AQ7	918 461 230		6	2	250		2.3	1.6	100		1.6	A08	DDT
6AQ8	741 236 410		6	2.3	250		10.0	5.5	100		5.0	B9A	TT
6AR5	412 365 000		6	16	250	250	34	2.4	100	PenLF	2.4	B7G	P
6AR6	106 052 430		6	36	300	300	58	4.3	100	PenLF	4.3	A08	P
6AR7GT	206 598 130	G	6	2	250	100	7	2.5	100	100	2.5	A08	DDP
6AR7	461 891 230		6	2	250		1.3	1.05	200		1.05	A08	DDT
6AS4	001 080 230		6						REC			A08	R
6AS5	142 345 600		6	8.5	150	125	35	5.6	100	100	5	B7G	P
6AS6	412 365 100		6	2	125	125	5.5	3.5	100	100	3.5	B7G	P
△ 6AS7	471 461 230		6	40	100				No Data Available			A08	TT
6AS8	541 238 116		6	2.2	200	150	9.5	6.2	100	150	6	B9A	DP
6AT6	412 389 600		6	3	250		1	1.2	100		1.2	B7G	DDT
6AT7n	641 237 410		6	2	250		10	5.5	100		5	B9A	TT
			6	1	100		3.7	4.0	100		4.0	B9A	TT
6AT8	461 237 514		6	1.0	100		8.5	5.8	100	60	5.8	B9A	TP
			6	1.8	250	150	7.7	4.6	100	150	4.0	B9A	TP
6AU4	001 080 230		6				120		REC		40mA	A08	R
6AU5	421 060 350		6	20	175	150	50	5.6	80	60	6	A08	P
6AU6	412 365 100		6	1	250	150	10.0	5.2	100	100	3.9	B7G	P
6AU7	641 227 413		3	8.5	250		10.5	2.2	100		2.0	B9A	TT
6AU8	146 231 457		6	1.25	150		8.5	4.9	100	60	5.0	B9A	TP
			6	1.5	200	125	15.0	7.0	100	100	7.0	B9A	TP
6AV4	802 309 100		6				30		REC		15mA	B7G	RR
6AV5	421 060 350		6	22.5	250	150	57	5.9	100	100	5.8	A08	P
6AV6	412 389 600		6	2	250		1.2	1.6	100		1.2	B7G	DDT
6AW4	289 130 000		6				30		REC		15mA	UX5	RR
6AW5	208 190 310		6				30		REC		15mA	A08	RR
6AW6	412 365 100		6	1.8	250	150	7	5	100	150	5	B7G	P
6AW7	149 816 230		6	0	100		1.4	1.2	100		1.2	A08	DDT

† See note on Page 5 regarding Back Emission.

△ See note on Page 6 regarding Low Impedance Triodes.

VALVE	SELECTOR SWITCH No.	T.C.	Vt	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6AW8	146 231 457		6	{ 2.0 3.0	200 200		4.00 13.0	4.0 9.0	100 100	60 100	4.0 9.0	B9A	TP
6AX2	23* 232 *32	D ₁	6				120		D			B9A	D
6AX4	001 080 230		6				120		REC		35mA	A08	R
6AX5	029 080 310		6				60		REC		20mA	RR	RR
6AX6	028 190 310		6				120		REC		30mA	A08	RR
6AX7	641 227 413		3	2	250		1.2	1.6	100		1.2	B9A	TT
6AX8	546 237 114		6	{ 1 1.2	150 250		18 10	8.5 4.8	100 100		8	B9A	TP
6AY5	023 540 310		6	12.5	250	250	47	4.1	100	100 PenLF	4	A08	P
6AY8	026 589 310	G ₁	6	5	250	100	52	9.5	100	90	9	A08	DDP
6AZ5	810 230 190		6						D			B8A	DD
6AZ8	751 324 164		6	{ 6.0 2.3	200 200	150	13.0 9.5	3.3 6.0	100 100	60 100	3.0 6.0	B9A	TP
6B4	026 040 300		6	15	250		60	5.25	100		5	A08	T
6B6	026 980 310	G ₁	6	2	250		0.9	1.1	100		1.1	A08	DDT
6B7	265 891 300	G ₁	6	3	250	125	9	1.125	100	100	1.1	Sm7	DDP
6B7E	265 891 300	G ₁	6	3	250	125	9	1.125	100	100	1.1	Sm7	DDP
6B7S	265 891 300	G ₁	6	3	250	125	9	1.125	100	100	1.1	Sm7	DDP
6B8	026 985 310	G ₁	6	3	250	125	10	1.325	100	100	1.3	A08	DDP
6B8G	026 985 310	G ₁	6	3	250	125	9	1.125	100	100	1.2	A08	DDP
6B8SG	026 985 310	G ₁	6	3	250	125	9	1.125	100	100	1.2	A08	DDP
6BA5	402 063 190		6	2	100	100	5.5	2.1	100	100	2	B8A	P
6BA6	412 365 100		6	1	250	100	11	4.4	100	100	4.4	B7G	P
6BA7	641 231 106		6	2	100		18	7.0	100		7	B9A	H
6BA8	146 231 457		6	{ 8 2.5	200 200	150	8 13	2.7 9.00	100 100	60 100	5.0 9.0	B9A	TP
6BC4	644 231 446		6	1.5	150		14.5	10	100		10.0	B8A	T
6BC5	412 365 100		6	1.3	250	150	7.5	5.7	100	150	5.7	B7G	P
6BC7	180 239 111		6				5		D			B9A	RRR
6BC8	741 236 410		6	2.2	150		10.0	6.2	150		5	B9A	TT
6BD5	421 060 350		6	12	200	200		5	100	100	5	A08	P
6BD6	412 365 100		6	3	250	100	9	2	100	100	2	B7G	P
6BD7	641 238 09*		6	3.0	250		1.0	1.2	150		1.2	B9A	DDT
6BE6	412 365 400		6	1.5	250	100	12.5	2.75	100			B7G	H
6BE7	541 236 114		6	1	250	20	0.95	0.7	No Data Available			B9A	N
6BE8	461 237 514		6	{ 1 1	150 250	100	18 10	8.5 5.2	100 100	60 100	8	B9A	TP
6BF5	412 265 400		6	7.5	100	100	36	7.5	100	90	7	B7G	P
6BF6	412 398 600		6	9	250		9.5	1.9	100		1.9	B7G	DDT
6BF7	642 113 470		6	0.8	100		8	4.8	100		4.8	B8D	TT
6BG6	021 040 350	A	6	15	250	250	75	6	No Data Available			A08	P
6BG7	742 113 460		6	0.8	100		8	4.8	100		4.8	B9A	TT
6BH5	541 236 000		6	2.5	250	100	6.0	1.7	150	100	1.7	B9A	P
6BH6	412 365 100		6	1	250	150	7.4	4.6	100	100	3.4	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6BH8	146 321 457		6	{ 5.0 1.6	150 200		9.5 15.0	3.3 7.0	100 100	60 100		B9A	TP
6BJ5	412 36* 500		6	5	250	250	35	10.5	100	150	10	B7G	P
6BJ6	412 365 100		6	1	250	100	9.2	3.6	100	100	3.6	B7G	P
6BJ7	140 239 181		6						D			B9A	DDD
6BJ8	811 239 641		6	9	250		8	2.8	100			B9A	DDT
6BK5	604 231 450		6	5	250	250	35	8.5	100	150	8	B9A	P
6BK6	412 389 600		6	2	250		1.2	1.6	100		1.6	B7G	DDT
6BK7	741 236 410		6	1.0	100		9.0	6.1	100		6.0	B9A	TT
6BK7-A	741 236 410		6	2	150		10.7	9	100		9	B9A	TT
6BK8	501 236 014		6		150	150	3	1.8	100	100		B9A	P
6BL4	**1 *8* 230		6				180		REC		40mA	A08	
6BL7	471 461 230		6	9	250		40	7.0	100		6	A08	TT
6BL8	645 237 114		6	{ 2 2	100 175		14 10	5 6.2	100 100	60 150	5 6	B9A	TP
6BM5	412 365 400		6	6	250	250	30	7	No Data Available			B9A	P
6BM8	414 237 516		6	{ 1.0 16	175 200		3.7 35	2.5 6.4	100 100	60 100	2.5 6	B9A	TP
6BN4	142 361 400		6	2.2	150		9	7.00	100		7.0	B7G	T
6BN5	441 231 615		6	10.8	225	225	26.0	3.2	100	150	3.2	B9A	P
6BN6	142 354 600		6	1	60	60	0.25	1	80	60	1	B7G	P
6BN7	741 231 406		6	{ 15 1	250 125		24 5	5.5 2	No Data Available			B9A	TT
6BN8	026 895 310	G ₁	6	3	250	125	9	1.13	100	1000	1.1	A08	DDP
6BQ5	*41 23* 6*5		6	7.3	250	250	48.0	11.3	100	150	10.0	B9A	P
6BQ6	020 540 310	A	6	22.5	250	150	57	5.9	100	100	5	A08	P
6BQ7	741 236 410		6	2	150		9	6	150		6	B9A	TT
6BQ7-A	741 236 410		6	2	150		9	6.4	100		5	B9A	TT
6BR7	041 230 651		6	3	250	100	2	1.225	100	100	1.2	B9A	P
6BR8	461 237 514		6	{ 1.0 0.85	150 250		18 10	8.5 5.2	100 100	60 100	8	B9A	TP
6BS4	642 314 600		6	4	100	100	16.0	8.0	100		8	B7G	T
6BS5	541 236 **1		6	7.5	250	250	50	7	100	100		B9A	P
6BS7	001 230 651	G ₁	6	3	250	100	2	1.25	100	100	1.2	B9A	P
6BS8	641 237 410		6	2.2	150		10	7.2	100		7	B9A	TT
6BT4	280 009 130		6				30		REC		15mA	B8A	RR
6BT6	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
6BT8	891 236 541		6	2.2	200	150	9.5	6.2	100	100		B9A	DDP
6BU6	412 389 600		6	9	150		9.5	1.9	100		1.9	B7G	DDT
6BU8	157 231 461		6		100	60	2.2	1.5	100	60		B9A	PP
6BV7	865 239 141		6	5	250	250	38	10	100	150	10	B9A	DDP
6BV8	146 239 118		6	3.7	200		11	5.6	100			B9A	DDT
6BW4	800 230 901		6				30		REC		15mA	B9A	RR
6BW6	*41 230 651		6	13	300	225	34	3.75	100	150	3.7	B9A	P
6BW7	141 230 651		6	2.4	250	250	9.7	8.2	100	100	7	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6BW8	918 234 156		6.3	1.1	250	100	10	5.2	100	100		B9A	DDP
6BX4	802 308 100		6				30		REC		15mA	B7G	RR
6BX6	141 230 651		6	3	200	200	8	7.2	100	100	7	B9A	P
6BX7	471 461 230		6	16.4	250		42	7.6	100		6	A08	TT
6BX8	641 237 410		6	5	125		11	7.5	125		7	B9A	TT
6BY5	120 980 310		6				60		REC		20mA	A08	RR
6BY6	412 365 400		6	2.5	250	100	6.5	2.4	100	100	2	B7G	H
6BY7	141 230 651		6	2.0	250	100	10.0	6.0	150	100	5.0	B9A	P
6BY8	026 598 310	G ₁	6	4	250	250	44	12	100	PenLF	10	A08	DD
6BZ6	412 365 100		6	1.0	100-125	125	14	8	125	125	7	B7G	P
6BZ7	741 236 410		6	2.2	150		10.0	6.8	100		6.0	B9A	TT
6BZ8	641 237 410		6	1	125		10	8	125		8	B9A	TT
6C4	602 364 100		6	8.5	250		10.5	2.2	100		3	B7G	T
6C5	026 040 310		6	8	250		8	2	100		2	A08	T
6C6	265 113 000	G ₁	6	3	250	100	2	1.225	100	100	1.2	UX6	P
6C7	260 981 300	G ₁	6	9	250		4.5	1.25	100		1.2	Sm7	DDT
6C8	026 147 310	G ₁	6	4.5	250		3.2	1.6	100		1.6	A08	TT
6C9	276 454 130		6	2.5	100		5.0	3.0	100	60	3.0	B8A	TH
				2.5	250	100	8.0	2.5	100	100	2.5		
6C10	276 454 130		6	2.0	100		5.0	2.2	100	60	2.8	B8A	TH
				2.0	250	100	8.0	2.4	100	100	3.5		
6C11	276 454 130		6	3	100		5	2.3	100	60	2.3	B9A	TH
					125	125	5		100	100			
6C12	541 237 164		8	3	100		3	2	100	60	3	B9A	TH
				2	250	100	6.5	2.4	100	100	2.4		
6C31	027 546 310	G ₁	6	4.0	100		7	3.4	100	60	5	A08	TH
				3.0	250	100	5	2.8	100	100	3.1		
6CA4	8*1 23* 9**		6				60		REC		20mA	B9A	RR
6CA5	142 345 600		6	4.5	125	125	36	9.2	125	126	9.2	B7G	P
6CA7	126 540 310		6	14.5	250	250	57	8.5	100	100	9.0	A08	P
6CB5	521 441 350	A	6	30.0	175	175	90	8.8	100	100	8.0	A08	P
6CB6	412 365 100		6	1.0	125	125	13	8.0	100	150	6	B7G	P
6CD6	021 040 350	A	6	30	175	175	75	7.7	100	100	7.0	A08	P
6CE5	412 365 100		6	1	125	125	11	7.6	125	125	7.6	B7G	P
6CF6	412 365 100		6	1.0	125	125	12	7.8	100	150	6	B7G	P
6CF8	501 236 014		6	2	250	150	3	1.85	100	100		B9A	P
6CG6	412 365 100		6	8.0	250	150	9	2	100	100		B7G	P
6CG7	641 237 410		6	8.0	250		9.0	2.6	100		3.0	B9A	TT
6CG8	461 237 514		6		100		8.5	5.8	100	60	5.9	B9A	TP
				2	250	150	7.7	4.6	100	150	4		
6CH6	041 230 651		6	4.5	250	250	40	11.0	100	150	9.0	B9A	P
6CH7	741 236 411		6	2.2	150		10	6.8	150		6.8	B9A	TT
6CH8	175 321 446		6	2	200		13	3.3	100		4.9	B9A	TP
				2.2	200	150	9.5	6.3	100	150	5		
6CJ5	260 054 130		6	2.5	250	100	6	2.2	100	100	2.2	B8A	P
6CJ6	*41 23* *51	A	6	22	175	175	45	6.2	100	100	5	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DAA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6CK5	261 054 130	A ₁	6	7.0	250	250	36	10	100	PenLF	8	B8A	P
6CK6	541 231 600		6	5.5	250	250	36.0	10.0	100	150	9.0	B9A	P
6CL5	521 441 350		6	40	175	175	90	6.5	100	100		A08	P
6CL6	145 236 154		6	3	250	150	30	11	No Data Available			B9A	P
6CL8	461 237 514		6	{ 0.85 1	125 125		15 12	8 5.8	100 100	60 100	8 5	B9A	TP
6CM5	026 540 310	A ₁	6	7	250	250	72	14.5	100	PenLF		A08	P
6CM6	504 234 106		6	12.5	250	250	45	4.1	100	100	4	B9A	P
6CM7	701 236 441		6	{ 7.0 8.0	200 250		5.0 20.0	2.0 4.4	100 100	60 100	2.8 4.7	B9A	TT
6CM8	641 237 514		6	{ 2 7	250 200		1.8 9.5	2 6.2	100 100	60 100		B9A	TP
6CN6	120 540 310		6	7	250	250	100	14.3	100	PenLF	10	A08	P
6CN7	981 331 462	A	3	3	250		1.0	1.2	100		1.3	B7G	DDT
6CQ6	412 361 500		6	2.5	250	200	8.0	2.5	100	150	2.5	B7G	P
6CQ8	645 237 114		6	{ 0.85 1	125 125		15 12	8 5.8	100 125		8 5.8	B9A	TP
6CR6	182 365 400		6	2.0	250	100	9.5	2.0	250	100	1.95	B7G	DT
6CS5	514 234 1*6		6	10	200	125	47	8	100	100		B9A	P
6CS6	412 365 100	A	6	1.0	100	30	1.0	1.1	No Data Available			B7G	H
6CS7	604 237 411		6	{ 8.5 10.6	250 250		10.5 19	2.2 4.5	100 100		2 4	B9A	TT
6CT7	268 154 130		6	2	250	100	5	1.8	100	100	1.8	B8A	DP
6CU5	142 345 600		6	8	125	100	50	7.5	125	100	7.5	B8G	P
6CU6	020 540 310		6	22.5	250	150	57	5.5	100	100	6.0	A08	P
6CU7	276 454 130	A	6	{ 2 2	100 250		5 8	2.2 2	100 100	60 100	2.8 3.5	B8A	TH
6CV7	264 089 130		6	3	250	100	1	1.3	150		1.3	B8A	DDT
6CW5	*41 23* 6*5		6	12.5	175	175	70	10	100	100	9	B9A	P
6CW7	147 234 116		6	1.5	90		12	6	100		6	B9A	TT
6CX7	641 237 411		6	2	150		9	6.4	100		6	B9A	TT
6CX8	146 231 456	A	6	{ 1.5 2	150 200		9 24	4.6 10	100 100	60 60	4.6	B9A	TP
6CZ5	504 234 1*6		6	14	250	250	46	4.8	100	100		B9A	P
6D1	123 000 000		6						D			B3G	D
6D2	192 310 800		6						D			B7G	RR
6D3	812 380 000		6						D			B7G	R
6D5	026 040 310	G ₁	6	40	275		31	2.1	100		2.1	A08	T
6D6	265 113 000		6	3	250	100	8.2	1.6	100	100	1.6	UX6	P
6D7	265 101 300		6	3	250	100	2	1.225	100	100	1.2	m7	P
6D8	027 546 310		6	{ 3 2.0	150 250		4.2 3.5		100 150	60 100		S A08	H
6DA6	041 230 651		6	2.0	250	100	9.0	3.6	250	100	3.6	B9A	P
6DB6	412 365 100	G ₁	6	1	150	150	5.8	2	100	100		B7G	P
6DC6	412 365 100		6	2.2	200	150	9.5	5.5	150	100	5.0	B7G	P
6DE6	412 365 100		6	1.1	125	125	16	8	100	100	8	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6DG6	026 540 310		6	7.5	200	125	47	8	100	PenLF		A08	P
6DN6	021 040 350	A ₁	6	18	200	125	70	9	100	100		A08	P
6DQ6	020 540 310	A	6	22.5	250	150	75	6.6	125	100		A08	P
6DR4	123 000 000	D ₁	6						D			B3G	D
6DR6	*41 23* *51		6	23	175	175	45	6.6	100	100		B9A	P
6DT6	412 365 100		6	2.2	150	100	1.1	0.8	150	100	2.0	B7G	P
6E6	274 146 300		6	27.5	250		18	1.7	100		1.7	UX7	TT
6E7	265 101 300	G ₁	6	3	250	100	8.2	1.6	100	100	1.6	Sm7	
6E8G	027 546 310	G ₁	6	4.8	150		3.3	2.8	150	60	2.8	A08	TH
6EH6	412 365 100		6	1	250	150	7.4	4.6	100	150	4	B7G	P
6EX4	802 309 100		6				30		REC		15mA	B9A	RR
6FI	261 514 130		6	1.8	200	200	10	9	100	60	8	B8A	P
6F5	020 600 310	G ₁	6	2	250		0.9	1.5	100		1.5	A08	T
6F6	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
6F7	275 641 300	G ₁	6	3.0	100		3.5	0.5	100	60	0.5	Sm7	TP
				3.0	100	100	6.3	1.05	100	100	1.05		
6F7B	275 641 300	G ₁	6	3.0	100		3.5	0.5	100	60	0.5	UX7	TP
				3.0	100	100	6.3	1.05	100	100	1.05		
6F7E	275 641 300	G ₁	6	3.0	100		3.5	0.5	100	60	0.5	UX7	TP
				3.0	100	100	6.3	1.05	100	100	1.05		
6F7M	023 756 410	G ₁	6	3.0	100		3.5	0.5	100	60	0.5	UX7	TP
				3.0	100	100	6.3	1.05	100	100	1.05		
6F8	027 146 310	G ₁	6	8	250		9	2.6	100		2.6	A08	TT
6FI1	260 154 130		6	1.8	250	100	4.4	2.2	100	100	2.2	B8A	P
†6FI2	412 361 500		6	2	250	250	10	7.5	100	PenLF	5	B7G	P
				1.5	200	150	4	6.4	100	PenLF	5		
6FI3	260 154 130		6	1.8	200	200	10	9	150	150	8	B8A	P
6FI4	260 154 130		6	1.25	150	150	28	10.6	100	100	8	B8A	P
6FI5	261 154 130		6	2.5	250	100	7	2.3	100	100	2.3	B8A	P
6FI6	261 154 130		6	2.5	250	100	6	2.2	100	100	2.2	B8A	P
6FI7	412 361 500		6	5	100	100	12.5	4.0	100	100		B7G	P
6FI8	141 230 651		6	1.3	175	100	12	4.5	125	100		B9A	P
6FI9	141 230 651		6	2	250	100	10	6	150	100	5	B9A	P
6F32	216 510 030	G ₁	6	4.5	200	200	5.1	3	100	150	3	M08	P
6F33	412 361 500		6	4	200	200	5.75	3.55	100	100	1.5	B7G	P
6FX4	902 309 100		6				30		REC		15mA	B7G	RR
6G6	026 540 310		6	9	175	175	15	2.3	100	100	2.3	A08	P
6G7	026 985 310	G ₁	6	3	250	125	10	1.325	100	100	1.3	A08	DDP
6G8	026 985 310	G ₁	6	3	250	125	9	1.125	100	100	1.1	A08	DDP
6GG6	802 300 190		6				30		REC		15mA	F8	RR
6H4	020 800 310		6						D			A08	D
6H6	029 180 310		6						D		4	A08	DD

† See note on Page 5 regarding Back Emission,

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6H8G	026 895 310	G ₁	6	2	250	125	8.5	2.4	100	100	2.4	A08	DDP
6H8MG	026 895 310	G ₁	6	2	250	125	6	1.8	100	100	1.8	A08	DDP
6J4	412 344 600		6	1.5	150		15	12	100		10	B7G	T
6J5	026 040 310		6	8	250		9	2.6	100		2.6	A08	T
6J6	762 344 100		6	3	150		5	4.5	100		5.3	B7G	TT
6J7	026 510 310	G ₁	6	3	250	100	2	1.225	100	100	1.2	A08	P
6J8	027 546 310	G ₁	6	3	150			1.6	100	60	1.6	A08	TH
				3	250	100	1.3	1.2	100	100	1.5		
6K5	026 000 310	G ₁	6	3	250		1.1	1.4	200		1.4	A08	T
6K6	026 540 310		6	18	250	250	32	2.3	100	PenLF	2.3	A08	P
6K7	026 510 310	G ₁	6	3	250	125	10.5	1.56	100	100	1.6	A08	P
6K8	027 546 310	G ₁	6	1	100		8	2.5	100	60	3	A08	TH
				3	250	100	4	1.2	100	100	1.6		
6K25	026 040 310		6		100		30	2KΩ	No Data Available			A08	Thyratron
6L1	274 164 130		6	8.6	200		10	2.8	100		2.0	B8A	TT
6L5G	026 040 310		6	9	250		8	1.9	100		1.9	A08	T
6L6	026 540 310		6	18	350	250	54	5.2	100	PenLF	5.2	A08	P
6L7	026 540 310	G ₁	6	3	250	100	5.3	1.1	100	100	1.1	A08	H
6L12	741 236 410		6	2.3	250		10	5.9	100		5	B9A	TT
6L18	260 064 130		6	13.3	250		12.0	5.5	80		7.0	B8A	T
6L19	274 164 130		6	1.8	200		5	3.1	150		3.1	B8A	TT
6L34	412 314 600		6	1.5	250		10	9	150		7	B7G	T
6LD3	264 098 130		6	1.9	250		0.85	1.95	150		1.9	B8A	DDT
6LD12	191 238 146		6	3	250		1	1.2	100		1.3	B9A	DDDT
6LD20	264 098 130		6	5.9	250		5	2.3	100		3.0	B8A	DDT
6M3	*28 0*0 *30		6						D			A08	R
6M5	541 230 600		6	7	250	250	36	10.0	100	100	10.0	B9A	P
6M6	026 540 310		6	6	250	250	36	9.5	100	PenLF	8	A08	P
6M7	026 510 310	G ₁	6	2.5	250	125	10.5	3.4	100	100	3.2	A08	P
6M7MG	026 510 310	G ₁	6	2.5	250	125	6	2	100	100	2	A08	P
6M8	137 546 280	G ₁		1.0	100		0.5	1.1	100	60	1.1	A08	DTP
				3.0	100	100	8.5	1.9	100	100	1.9		
6N3	*** 23* **8		6				180		REC		50mA	B9A	R
6N4	412 361 400		6	3	175		12	6	150		6	B7G	T
6N7	027 446 310		6	5	250		3	1.6	100		1.6	A08	TT
6N8	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
6NK7	026 510 310	G ₁	6	2	250	100	5	2.3	100	100	2.3	A08	P
6Pl	026 540 310		6	8.5	250	250	40	8.8	100	150	8	A08	P
6P5	026 040 310		6	13.5	250		5	1.25	100		1.4	A08	T
6P6	215 413 000	A	6	8.0	250	150	34		100	100		UX6	P
6P7	023 756 410	G ₁	6	3.0	100		3.5	0.5	100	60	0.5	A08	TP
				3.0	100	100	6.3	1.05	100	100	1.05		
6P8	027 546 310	G	6		100		2.2		100	60		A08	TH
				2.4	250	75	1.5		100	75			
6P9	412 365 400		6	6	250	250	30	7	No Data Available			B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6P15	*41 23* 6*5		6	7.5	250	250	49	11.3	100	150	10	B9A	P
6P25	026 540 310		6	8.5	250	250	40	8.8	100	100	8	A08	P
6P26	026 540 310		6	8.5	250	250	40	8.8	100	PenLF	8	A08	P
6P28	020 540 310	A	6	8.8	100	250	72	9.5	100	PenLF	9	A08	P
6PX6	026 540 310		6	6	250	35	9.2	9.2	100	PenLF	8	A08	P
6PZ8	026 598 310	G ₁	6	6	250	250	36	9.2	100	PenLF	8	A08	DDP
6Q4	441 230 446		6	1.5	250		15	12.0	No Data Available			B9A	T
6Q6	026 080 310		6	3	250		1.2	1.05	150		1.05	A08	DT
6Q7	026 980 310	G ₁	6	3	250		1	1.2	100		1.5	A08	DDT
6QL6	541 236 154		6	11.5	175	175	52	9.5	125	100		B9A	P
6R	026 510 310	G	6	2	250	100	3.7	2.0	100	100		A08	P
6R3	*** 23* **8	C	6				120		REC		30mA	B9A	R
6R4	401 230 060		6	2	150		30	5.5	100		5	B9A	T
6R6	026 500 310	G ₁	6	3	250	100	7	1.45	100	100	1.4	A08	P
6R7	026 980 310	G ₁	6	9	250		9.5	1.9	100		1.9	A08	DDT
6R8	8†1 239 146		6	9	250		9.5	1.9	100		1.9	B9A	DDDT
6RV	026 510 310	G ₁	6	2	250	100	6.4	2.1	100	100	2.1	A08	P
6S2	*** 23* ***	D ₁	5						D			B9A	D
6S4	*1* 234 **6		6	8	250		26	4.5	100		4.5	B9A	T
6S6	120 600 350	G ₁	6	2	250	100	13	4	100	100	4	A08	P
6S7	026 510 310	G ₁	6	3	250	100	8.5	1.75	100	100	1.7	A08	P
6S8	†18 916 230	G ₁	6	2	250		0.9	1.1	200		1.1	A08	DDDT
6SA7	126 641 310		6	3.6	100		12	4.3	100		1.4	A08	H
6SA7G	026 641 310		6	3.6	100		12	4.3	100		1.4	A08	H
6SB7Y	126 541 310		6	1	250	100	3.8		100	100		A08	H
6SC5	026 400 310		6	4	250		7.5	2.7	100		2.7	A08	T
6SC7	074 461 230		6	2	250		2	1.325	200		1.3	A08	TT
6SD7	021 415 360		6	2	250	100	6	3.6	100	100	3.6	A08	P
6SE7	021 415 360		6	1.5	250	100	4.5	3.4	100	100	3.4	A08	P
6SF5	014 060 320		6	2	250		0.9	1.5	200		1.5	A08	T
6SF7	041 581 350		6	1	250	100	12.4	2.05	100	100	2	A08	DP
6SG7	021 415 230		6	1	250	125	11.8	4.7	100	100	4.7	A08	P
6SH7	021 415 360		6	1	250	150	10.8	4.9	100	150	4.9	A08	P
6SJ77	021 415 360		6	3	250	100	3	1.65	100	100	1.6	A08	P
6SK	021 415 360		6	3	250	100	9.2	2	100	100	2	A08	P
6SL7	461 471 230		6	2	250		2.3	1.6	150		1.6	A08	TT
6SN7	461 471 230		6	8	250		9	2.9	100		2.6	A08	TT
6SQ7	041 896 230		6	2	250		0.9	1.1	200		1.1	A08	DDT
6SR7	041 986 230		6	9	250		9.5	1.9	100		1.9	A08	DDT
6SS7	021 415 360		6	3	250	100	9	1.85	100	100	1.8	A08	P
6ST7	041 896 230		6	9	250		9.5	1.9	100		1.9	A08	DDT
6SU7	471 461 230		6	2	250		2.3	1.6	200		1.6	A08	TT
6SV7	041 586 230		6	1	250	150	7.5	3.4	100	150	3.5	A08	DP
6SZ7	041 986 230		6	3	250		1	1.2	200		1.2	A08	DDT
6T	205 413 000	A ₁	6	12.5	250	250	4.5	4.1	100	PenLF	4	UX6	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6T4	642 314 600		6	3.0	80		18.0	7.0	80		7.0	B7G	T
6T6	026 500 310	G ₁	6	1	250	100	10	5.5	100	100	5.5	A08	P
6T7	026 980 310	G ₁	6	3	250		1.2	1.052	100		1.05	A08	DDT
6T8	†91 238 146		6	3	250		1	1.2	150		1.3	B9A	DDDT
6TE8	427 546 310	G ₁	6	2	100		3.7		100	60		A08	TH
				2	250	100	3.5		100	100			
6TE9	651 237 440		6	2.5	100		4	2	100		2	B9A	TH
				2.5	200	90	3	0.75	100	90			
6TH8	027 546 310	G ₁	6	7.0	150		6	1.1	150	60		A08	TH
				1.5	500	75	3.5		100	75			
6TP	205 413 000	A ₁	6	14.5	250	250	72	6	100	PenLF	6	YX6	P
6U3	*** 123* **8		6				180		REC		40mA	B9A	R
6U4	001 080 230		6				120		REC		30mA	A08	R
6U6	026 540 310		6	14	200	150	56	6.2	100	100	6.2	A08	P
6U7	026 510 310	G ₁	6	3	250	100	8	1.5	100	100	1.5	A08	P
6U8	645 237 114		6	1	150	0	18	8.5	100	60	7	B9A	TP
				1	250	100	10	5.2	150	100	5		
6V3	080 230 808	C	6				120		REC		40mA	B9A	R
6V3P	000 230 009	C	6				120		REC		40mA	B9A	R
6V4	8*1 23* 9**		6				30		REC		15mA	B9A	RR
6V5	006 540 230		6	12.5	250	250	45	4.1	100	PenLF	4.1	A08	P
6V6	026 540 310		6	12.5	250	250	45	4.1	100	PenLF	4	A08	P
6V7	026 980 310	G ₁	6	20	250		8	1.1	100		1.1	A08	DDT
6V8	681 234 †19		6	3	250		1	1.2	100		1.3	B9A	DDDT
6W2	023 000 000	D ₁	6						D			B3G	D
6W3	**1 23* **8		6				120		REC		40mA	B9A	R
6W4	001 080 230		6				120		REC		30mA	A08	R
6W5	028 090 310		6				60		REC		20mA	A08	RR
6W6	026 540 310		6	9.5	150	150	58	8	100	100	8	A08	P
6W7	026 510 310	G ₁	6	3	250	100	2	1.225	100	100	1.2	A08	P
6X2	023 000 000	D ₁	6						D			B3G	D
6X3	020 000 310	D ₁	6				5		D			A08	R
6X4	802 309 100		6				30		REC		35mA	B7G	RR
6X5	028 090 310		6				30		REC		35mA	A08	RR
6X8	146 231 457		6	1.0	100		8.5	5.8	100	60	5.0	B9A	TP
				1.8	250	150	7.5	4.6	100	150	4.0		
6Y3	020 000 300	D ₁	6				30		REC		15mA	A08	R
6Y5	208 193 000		6				30		REC		15mA	UX6	RR
6Y6	026 540 310		6	13.5	150	150	58	7	100	100	7	A08	P
6Y7	027 446 310		6	0	250		5.3	1.8	150		1.8	A08	TT
6Z3	381 200 000		6				60		REC		20mA	UX4	R
6Z4	289 130 000		6				30		REC		45mA	UX5	RR
6Z5	328 192 000		6				30		REC		15mA	UX6	RR
6Z6	028 190 310		6				30		REC		15mA	A08	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6Z7	026 447 310		6	0	175		4.2	0.55	150		0.55	A08	TT
6ZDH3A	264 913 000		6	2	225		1.5	1.5	100		1.2	UX6	DT
6ZPI	265 413 000		6	9	200	200	15	1.75	100	100		UX6	P
6ZY5	028 090 310		6				15		REC		15mA	A08	RR
7A2	642 310 000	S	4	17	250	250	40	3.2	100	PenLF	2.3	B5	P
7A2	045 231 600		4	17	250	250	40	3.2	100	PenLF	2.3	B7	P
7A3	045 231 600		4	6	250	250	32	10	100	100	10	B7	P
7A4	260 0*4 130		6	8	250		9	2.6	100		2.6	B8B	T
7A5	265 004 130		6	9	125	125	44	6	100	90	6	B8B	P
7A6	219 008 130		6				5		D			B8B	RR
7A7	265 104 130		6	3	250	100	9.2	2	100	100	2	B8B	P
7A8	266 451 130		6	1	250	100	14	1.4	100	100	1.6	B8B	O
7AB7	526 141 310		6	2	250	100	4	1.8	100	100	1.2	B8B	P
7AC7	412 365 100		6		300	150	10	9	100	100	8	B7G	P
7AD7	265 104 130		6	2.3	300	150	28	9.5	100	150	9	B8B	P
7AF7	217 446 130		6	9	250		9	2.1	100		2.1	B8B	TT
7AG7	265 114 130		6	2	250	250	6	4.2	200	200	4.2	B8B	P
7AH7	265 114 130		6	2	250	250	6.8	3.3	100	150	3.3	B8B	P
7AJ7	265 104 130		6	3	250	100	2.2	1.575	100	100	1.5	B8B	P
7AK7	265 104 130		6	0	150	90	40	6.5	100	100	1.5	B8B	P
7AN7	147 234 116		7.5	1.5	90		12	6	100		6	B9A	TT
7AU7	741 226 413		3.5	8.5	250		10.5	2.2	100		2.2	B9A	TT
7B4	260 004 130		6	2	250		0.9	1.5	200		1.5	B8B	T
7B5	265 004 130		6	18	250	250	32	2.3	100	PenLF	2.3	B8B	P
7B6	264 *98 130		6	2	250		0.9	1.1	200		1.1	B8B	DDT
7B7	265 104 130		6	3	250	100	8.5	1.75	100	100	1.7	B8B	P
7B8	265 454 130		6	2	250	100		1.15	100	100	1.1	B8B	H
7C4	2*0 800 130		6				5		D			A08	R
7C5	265 004 130		6	12.5	250	250	45	4.1	100	PenLF	4.1	B8B	P
7C5LT	265 004 130		6	12.5	250	250	45	4.1	100	PenLF	4.1	B8B	P
7C6	264 198 130		6	1	250		1.3	1	250		1	B8B	DDT
7C7	265 114 130		6	3	250	100	2	1.3	100	100	1.3	B8B	P
7D3	045 231 600		40	20	150	125	36	2.4	100	100	3.8	B7	P
7D5	045 231 600		13	16.5	250	250	34	2.35	100	PenLF	2.3	B7	P
7D6	045 231 600		40	6	250	250	32	10	100	100	10	B7	P
7D7	076 451 130		6	3	250	100	1.3	0.27	125	100		B8B	TH
7D8	045 231 600		13	6	250	250	32	10	100	100	10	B7	P
7D9	412 360 500		6	13.5	250	250	16	2.6	100	PenLF	2.6	B7G	P
7D9	045 231 600		13	25	250	250	32	1.8	100	PenLF	1.8	B7	P
7D10	*41 230 651		6	4.5	250	250	40	11	100	150	9	B8A	P
7E5	426 141 630		6	3	175		5.5	3	150		3	B8B	T
7E6	264 *94 130		6	8	250		9.5	1.9	100		1.9	B8B	DDT
7E7	269 854 130		6	3	250	100	7.5	1.3	100	100	1.3	B8B	DDP
7F7	217 446 130		6	2	250		2.3	1.6	200		1.6	B8B	TT
7F8	427 116 340		6	3	250		6	3.3	200		3.3	B8B	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
7F16	261 154 130		6	2.5	250	100	6	2.2	100	100	2.2	B8A	P
7G7	265 114 130		6	2	250	100	6	4.5	100	100	4.6	B8B	P
7G8	265 441 730		6	2.5	250	100	4.5	2.1	100	100	2.1	B8B	PP
7H6	265 114 130		6	2.5	250	150	9.5	3.5	100	150	3.5	B8B	P
7H7	265 114 130		6	2	250	150	10	4.2	100	150	4.2	B8B	P
7J7	276 454 130		6	{ 3 3	150 250		6.6 1.4	1.4	150 100	60 100	1.4	B8B	TH
7K7	216 498 130		6	2	250		2.3	1.6	200		1.6	B8B	DDT
7L7	265 104 130		6	1.5	250	100	4.5	3.1	100	100	3.1	B8B	P
7N7	217 446 130		6	8	250		9	2.6	100		2.6	B8B	TT
7Q7	266 414 130		6	2	100		15	6	100		4.5	B8B	H
7R1	280 300 000		7.5				60		REC		20mA	UX4	R
7R7	269 854 130		6	1	250	100	6.2	3.4	100	100	3.4	B8B	DDP
7S7	276 454 130		6	{ 1 2	100 250		4.8 4	1.4 2	100 100	60 100	1.8 2.2	B8B	TH
7T7	265 104 130		6	1	250	150	10.8	4.9	100	150	4.9	B8B	P
7V7	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
7W7	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
7X6	218 009 130		6				30		REC		15mA	B8B	RR
7X7	264 189 130		6	1	250		1.9	1.5	250		1.5	B8B	DDT
7Y4	208 009 130		6				30		REC		30mA	B8B	RR
7Z4	209 008 130		6				60		REC		20mA	B8B	RR
8A1	041 231 500	A	4	1.5	200	75	3.5	4	100	75	4	B7	P
8A1	542 310 000	A	4	1.5	200	75	3.5	4	100	75	4	B5	P
8A2	542 310 000	A	4	2.1	200	100	3	2.4	100	100	2.4	B5	P
8A8	645 237 114		9	{ 2.0 2.0	100 175		14.0 10.0	5.0 6.2	100 100	60 150	5.0 6.0	B9A	TP
8AU8	146 231 457		8.5	{ 1.25 1.5	150 200	175 125	8.5 16	4.9 7	100 100	60 100	5 7	B9A	TP
8AW8	146 231 456		8.4	{ 2 3	200 200		4 13	4 9	100 100	60 100	4 9	B9A	TP
8BA8	146 231 456		8.4	{ 8 3	200 200	150	8 13	2.7 9	100 100	60 100	5	B9A	TP
8BQ7A	641 237 410		8.4	2	150		9	6.4	100		6	B9A	TT
8CG7	741 236 410		8.4	8	250		9	2.6	100		3	B9A	TT
8CM7	701 236 441		8.4	{ 7 8	200 250		5 20	2.0 4.4	100 100		2.8 4.7	B9A	TT
8CN7	891 221 643		4.2	3	250		1	1.2	100		1.3	B9A	DDT
8CX8	146 231 456		8.0	{ 1.5 2	150 200	125	9 25	4.6 10	100 100	60 60	4.6	B9A	TP
8D2	061 231 500	G ₁	13	3	250	100	2	1.25	100	100	1.25	B7	P
†8D3	412 361 500		6	{ 2 1.5	250 200	250 150	10 4	7.5 6.4	100 100	PenLF PenLF	5 5	B7G	P
8D4	026 510 310	G ₁	6	2	250	100	3	1.8	100	100	1.8	A08	P

† See note on Page 5 regarding Back Emission.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
8D5	041 230 651		6	3	250	100	2	1-225	100	100	1-2	B9A	P
8D6	141 230 651		6	2-0	175	175	10-0	2-5	100	100	2-5	B9A	P
8D7	001 230 651	G ₁	6	3	250	100	2	1-25	100	100	1-2	B9A	P
8G140	892 300 000		8				60		REC		20mA	B4	RR
9A1	045 231 500	A	4	1-5	200	75	5	4-25	100	75	4-2	B7	P
9A1	542 310 000	A	4	1-5	200	75	5	4-25	100	75	4-2	B5	P
9A3	061 231 500	G ₁	4	2	250	125	10	1-8	100	100	1-8	B7	P
9A8	645 237 114		9	{ 2 2	100 175	175	14 10	5 6-2	100 100	60 150	5 5	B9A	TP
9AB4	602 304 100		9	2	250		10	5-0	100		5-0		
9AK8	†91 238 146		9-5	2-3	200		1-0	1-4	100		1-4	B9A	DDDT
9AQ8	641 237 410		9	2-1	200		10	5-8	200		5-8	B9A	TT
9AU7	741 226 413		4-7	3-5	250		10-5	2-2	100		2-2	B9A	TT
9BQ7A	641 237 410		8-4	2	150		9	6-4	100		6	B9A	TT
9BM5	412 365 400		9	6	250	250	30	7				B9A	P
9BW6	*41 230 651		9	12-5	250	250	45	4-1	100	150	4	B9A	P
9D2	061 231 500	G ₁	13	3	250	125	10-5	1-65	100	100	1-8	B7	P
9D6	412 361 500		6	2-5	250	200	8	2-5	100	100	2-5	B7G	P
9D7	141 230 651		6	1-5	250	100	10	8-4	100	100		B9A	P
9J6	762 344 100		9	0-85	100		8-5	5-3	100		5-3	B7G	TT
9P9	412 365 400		9	6	250	250	30	7	100	100		B9A	P
9U8	645 237 114		9-5	{ 1-0 1-0	150 250	100	18-0 10-0	8-5 5-2	100 100	60 100	8-5 5-0	B9A	TP
10	264 300 000		7-5	32	250		16	1-55	100		1-55		
10C1	276 454 130		28	{ 3-3 2-5	100 175	100	6 8	3 2-5	100 100	60 100	3 2-5	B8A	TH
10C2	276 454 130		28	{ 3-3 1-5	100 175	100	6-0 3-0	3-0 5-0	100 100	60 100	3-0 5-0		
10C8	641 237 541		10-5	{ 2-7 1-5	250 125	125	7-3 11-5	4-4 8-0	100 125	60 125	5 8	B9A	TP
10D1	892 310 000		13				5		D			B5	RR
10D2	192 310 800		19				5		D			B7G	RR
10F1	261 514 130		22	1-8	200	200	10	9	100	150	7	B8A	P
10F3	260 154 130		22	2-35	200	200	6	6-5	100	150	7	B8A	P
10F9	260 154 130		13	2-5	175	100	7	2-3	100	100	2-3	B8A	P
10F18	141 230 651		13	1-3	175	100	12	4-5	100	100		B9A	P
10L1	412 314 600		19	1-5	250		10	8-5	100		8	B7G	T
10LD3	264 098 130		14	1-1	150		0-6	1-95	150		1-9	B8A	DDT
10LD11	264 098 130		15	5-9	250		5	2-3	100		3	B8A	DDT
10P13	260 054 130		40	6-0	150	150	30	7-5	100	100	6-0	B8A	P
10P14	026 540 310		40	9-4	175	175	40	7-2	100	PenLF	6	A08	P
11	362 400 000		1-1	4-5	90		2-5	0-425	80		0-4	UX4	T
11A2	908 231 600	G ₁	4	2	200		3	2-8	100		2-8	B7	DDT
11D3	908 231 600	G ₁	13	2	250		0-6	1-1	100		1-1	B7	DDT
11D5	908 231 600	G ₁	13	3	250		3-8	1-5	150		1-5	B7	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
11E1	216 540 030	A G ₁	6		250	250	50	7.3	100	100	7	M08	P
11E2	020 540 310		6	16.5	200	200	25	9	100	150	8	A08	P
11E8	200 647 310		11		150		20		100			A08	TT
11X5	028 090 310		11				30		REC		15mA	A08	RR
12	364 200 000		1.1	4.5	90		2.5	0.425	80		0.4	UX4	T
12A	264 300 000	G ₁	5	4.5	90		5	1.5	80		1.5	UX4	T
12A4	142 330 406		6	9.0	250		23	0.8	250		0.8	B9A	T
12A5	265 413 200		6	15	100	100	17	1.7	100		1.7	UX7	P
12A6	026 540 310		12.5	12.5	250	250	30	2	100	PenLF	3	A08	P
12A7	265 181 300		12.5	{ 12.5	150	150	30 9	0.975	REC 100		15mA 0.9	{ Sm7	RP
12A8	026 545 310	G ₁	12.5	3	250	100	3.5	1.15	100	100	1.1	A08	H
12AB5	504 234 156		12	12.5	250	250	45.0	4.1	250	200	4.0	B9A	P
12AC5	26* *54 130		12	3	200	125	2.3	2.3	100	150	2.3	B8A	P
12AD7	641 227 413		6	2	250		1.25	1.6	100			B9A	TT
12AH7	417 146 230		12.5	3.6	100		3.7	1.55	80		1.55	A08	TT
12AH8	541 227 463		6	{ 0 3	100 250	100	5.7 2.6	3.5	100 100	60 100	3.5 2.8	{ B9A	TH
12AK7	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
12AJ7	541 237 464		12	{ 2.5	100 225	90	4 3	2.0 0.65	100 100	60 100	2	{ B9A	TH
12AJ8	541 237 464		12	{ 1.2	60 100	60	2.5 1.7		60 100	60 60		{ B9A	TH
12AL5	192 310 800		12.5				5		D			B7G	RR
12AQ5	412 365 400		12.5	12.5	250	250	45	4.1	100	150	4	B7G	P
12AS5	142 345 600		12	8.5	150	100	35	5.6	150	100	5.6	B7G	P
12AT6	412 389 600		12.5	3	250		1	1.2	100		1.2	B7G	DDT
12AT7	741 226 413		6	2	250		10	5.5	200		5	B9A	TT
12AU4	001 080 230		12				120		REC		40mA	A08	R
12AU6	412 365 100		12.5	1	250	150	10.8	5.2	100	100	5.2	B7G	P
12AU7	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT
12AV5	421 060 350		12	22.5	250	150	57	5.9	100	100	5.8	A08	P
12AV6	412 389 600		12.5	2	250		1.2	1.6	100		1.2	B7G	DDT
12AV7	741 226 413		6	1.0	150		18	8.5	100		7	B9A	TT
12AW6	412 365 100		12.5	1.5	250	150	7	5	100	PenLF	5	B7G	P
12AW7	412 365 100		12.5	1.8	250	150	7	5	100	150	5	B7G	P
12AX4	001 080 230		12.5				120		REC		35mA	A08	R
12AX7	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
12AY7	641 227 413		6	4	250		3	1.75	100		1.7	B9A	TT
12AZ7	741 226 413	G ₁	6.3	2.0	200		10.0	5.5	100		5.5	B9A	TT
12B4	142 330 406		6	17.5	150		34.0	6.4	150		6.3	B9A	T
12B6	026 080 310		12.5	2	250		0.9	1.1	150		1.1	A08	DT
12B7	265 104 130		12.5	3	250	100	9.2	2	100	100	2	B8B	P
12B8	127 561 340		12.5	{ 1.1 3	100 100	0 100	0.6 8	1.5 2.1	100 90	60 90	1.5 1.8	{ A08	TP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
12BA6	412 365 100		12-5	1	250	100	11	4-4	100	100	4-4	B7G	P
12BA7	641 231 106		12-5	2	100		18	7	100		7	B9A	H
12BD6	412 365 100		12-5	3	250	100	9	2	100	100	2	B7G	P
12BE6	412 366 100		12-5	2	100		11	7	100		5	B7G	H
12BF6	412 398 600		12-5	9	250		9-5	1-9	100		1-9	B7G	DDT
12BH7	741 226 413		6	10-5	250		11-5	3-1	100		4	B9A	TT
12BK5	604 231 450		12	5-0	250	250	35-0	8-5	100	150	8-0	B9A	P
12BK6	412 389 600		12-5	2	250		1-2	1-6	150		1-6	B7G	DDT
12BN6	142 354 600		12-5	1	60	60	0-25	1	80	60	1	B7G	P
12BQ6	020 540 310	A ₁	12	22-5	250	150	57	5-9	100	100	5	A08	P
12BR7	641 228 913		6	2	250		10	5-5	100		4	B9A	DDT
12BT6	412 389 600		12-5	3	250		1-0	1-2	150		1-2	B7G	DDT
12BU6	412 389 600		12-5	9	250		9-5	1-9	150		1-9	B7G	DDT
12BV7	141 223 651		6	2-2	250	150	27	13	100	100		B9A	P
12BW4	800 230 901		12				30		REC		15mA	B9A	RR
12BY7	141 223 651		6	2-1	250	150	25	12-0	150	100	10-0	B9A	P
12BZ7	741 226 413		6	2-0	250		2-5	3-2	100		3-0	B9A	TT
12C5	142 345 600		12	7-5	125	100	49	7-5	100	90	6	B7G	P
12C8	026 985 310	G ₁	12-5	3	250	125	10	1-325	100	100	1-3	A08	DDP
12CA5	142 345 600		12	4-5	125	125	36	9-2	100	100	8	B7G	P
12CM6	504 234 106		12	12-5	250	250	45	4-1	100	100		B9A	P
12CR6	182 365 400		12	2	250	100	6-9	2-2	100	100	2	B7G	DP
12CS6	112 365 400		12	1	100	30	0-8	1-5	No Data Available			B7G	P
12CT8	641 237 541		12	1-4	150		9	4-9	100	60	4-5	B9A	TP
12CU5	142 345 600		12	1-5	200	125	15	7	100	100			
				8	125	100	50	7-5	100	100	7	B7G	P
12CU6	020 540 310	A ₁	12	22	250	150	57	5-8	100	100		A08	P
12D4	**1 *8* 230		12						D			A08	D
12DA6	041 230 651		12	1	175	100	12	4-4	100	100		B9A	P
12DQ6	020 540 310	A ₁	12	22-5	250	150	75	6-6	100	100		A08	P
12EI	020 540 310	A ₁	6	21	150	150	100	7	100	100	10	A08	P
12E5	026 040 310		12-5	13-5	250		5	1-45	100		1-4	A08	T
12E8	027 546 310	G ₁	12	2	100		3-3		100	60		A08	TH
					100	100	3	0-56	100	100	0-56		
12F	280 300 000		5				60		REC		20mA	UX4	R
12F5	020 600 310	G ₁	12-5	2	250		0-9	1-5	150		1-5	A08	T
12G4	602 364 100		12	8	250		10	3-0	100		3	B7G	T
12G7	026 980 310	G ₁	12-5	3	250				D			A08	DD
12G8	714 226 143		6										
12H4	623 364 100		6	8	250		9	2-6	90		3	B7G	T
12H6	029 180 310		12-5						D		4	A08	DD
12J5	026 040 310		12-5	8	250		9	2-6	100		2-6	A08	T
12J7	026 510 310	G ₁	12-5	3	250	100	2	1-225	100	100	2-2	A08	P
12K7	026 510 310	G ₁	12-5	3	250	125	10-5	1-65	100	100	1-6	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
I2K8	027 546 310	G ₁	12.5	1	100		8	2.5	100	60	3	A08	TH
I2L6	026 540 310		12	3	250	100	4	1.2	100	100	1.6		P
I2L8	414 752 360		12.5	8.25	200	125	46	8.0	100	100	8.0	A08	PP
I2M7	026 510 310	G ₁	12	9	175	175	13	2.15	100	100	2.1	A08	P
I2NK7	026 510 310	G ₁	12.5	2.5	100	100	6	2.2	100	100	2.2	A08	P
				2	250	100	5	2.3	100	100	2.3	A08	P
I2Q7	026 980 310	G ₁	12.5	3	250		1	1.2	150		1.2	A08	DDT
I2S7	268 154 130		13	2	200	90	5	2	100	100	1.9	B8A	DP
I2S8	†18 916 230	G ₁	12.5	2	250		0.9	1.1	150		1.1	A08	DDDT
I2SA7	126 641 340		12.5	3.6	100		12	4.3	100		4.5	A08	H
I2SA7G	026 641 340		11.5	3.6	100		12	4.3	100		4.5	A08	H
I2SC7	074 461 230		12.5	2	250		2	1.325	150		1.3	A08	TT
I2SF5	014 060 320		12.5	2	250		0.9	1.5	150		1.5	A08	T
I2SF7	041 586 230		12.5	1	250	100	12.9	2.05	100	100	2	A08	DP
I2SG7	021 415 360		12.5	1	250	125	11.8	4.7	100	100	4.7	A08	P
I2SH7	021 415 360		12.5	1	250	150	10.8	4.9	100	150	4.9	A08	P
I2SJ7	021 415 360		12.5	3	250	100	3	1.65	100	100	1.6	A08	P
I2SK7	021 415 360		12.5	3	250	100	9.2	2	100	100	2	A08	P
I2SL7	461 471 230		12.5	2	250		2.5	1.6	150		1.6	A08	TT
I2SN7	461 471 230		12.5	8	250		9	2.6	100		2.6	A08	TT
I2SQ7	041 896 230		12.5	2	250		0.9	1.1	150		1.1	A08	DDT,
I2SR7	041 986 230		12.5	9	250		9.5	1.9	100		1.9	A08	DDT
I2SS7	021 415 360		12.5	3	250	100	9	1.85	100	100	1.8	A08	P
I2SW7	041 986 230		12.5	9	250		9.5	1.9	100		1.9	A08	DDT
I2SX7	471 461 230		12.5	8	250		9	2.6	100		2.6	A08	TT
I2SY7	126 641 340		12.5	1	100		22	4.5	100		4.5	A08	H
I2TE8	427 546 310		12	{	100		3.4		100	60		A08	TH
					250	100	3.7		100	100			
					100		3.4		100	60			
I2TE9	651 237 440		12	{	250	100	3		100	100		B9A	TH
					250				100				
					100				100				
I2V6	026 540 310		12.5	12.5	250	250	45	4.1	100	150	4	A08	P
I2W6	026 540 310		12	9.5	150	150	58	8.0	100	100	8.0	A08	P
I2WC5	265 414 300		12	1.5	250	100			No Data Available			UX7	O
I2X3	210 300 000	D ₁	12.5				60		REC		20mA	UX4	R
I2X4	802 309 100		12.5				30		REC		15mA	B7G	RR
I2Y4	892 310 000		12				31		REC		15mA	UX4	RR
I2Z4	281 300 000		12.5				60		REC		60mA	UX4	R
I2Z5	281 319 200		6				30		REC		15mA	UX7	RR
I2ZDH3A	264 813 000		12	2	225		1.5	1.5	125		1.2	UX6	DT
I2ZPIA	265 413 000		12	9	200	200	30	2.3	100	PenLF		UX6	P
I3	298 300 000		5				60		REC		20mA	UX4	RR
I3BCIU	206 081 930	G ₁	12.5	1.8	200		3	2	150		2	B8B	DDT
I3BF2U	206 581 930	G ₁	12.5	2.1	200	200	5	2	100	200	2	B8B	DDP
I3D1	461 471 230		25	8	250		2	2.6	100		2.5	A08	TT
I3D2	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
13D3	741 226 413		6	4-6	250		6	2-3	100		2-3	B9A	TT
13DHA	908 231 600	G ₁	13	1-5	250		1	1-5	100		1-5	B7	DDT
13F9U	206 501 130	G ₁	12-5	2-6	200	200	6-2	2.2	100	200	2-2	B8B	P
13HI	023 110 560	G ₁	3	2	200	100	3	2	100	100	2	8SC	P
13H2	023 110 560	G ₁	13	3	200	100	8.2	1-8	100	100	1-8	8SC	P
13PGA	645 231 700	G ₁	13	{ 20 3	200 250		4 3-5		100 100	60 100		B7	H
13SPA	061 231 500	G ₁	13	3	200	100	2-3	1-7	100	100	2-25		
13VI	013 189 560	G ₁	13	8-5	200	200	45	4-4	100	PenLF	4	8SC	DDP
13VPA	061 231 500	G ₁	13	3	200	100	7	1-8	100	100	1-8	B7	P
14	265 130 000	G ₁	14	3	250	90	4	1-05	100	90	1	UX5	P
14A4	260 0*4 130		12-5	8	250		9	2-6	100		2-6	B8B	T
14A5	265 004 130		12-5	12-5	250	250	30	3	100	PenLF	3	B8B	P
14A7	265 104 130		12-5	3	250	100	9-2	2	100	100	2	B8B	P
14AF4	216 447 130		12	10	250		9	2-1	100		2	B8B	TT8
14AF7	216 447 130		12-5	9	250		9	2-1	100		2-1	B8B	TT
14B6	264 *89 130		12-5	2	250		0-9	1-1	150		1-1	B8B	DDT
14B8	265 454 130		12-5	2	250	100		1-15	100	100	1-1	B8B	H
14C5	265 004 130		12-5	12-5	250	250	47	4-1	100	PenLF	4-1	B8B	P
14C7	265 114 130		12-5	3	250	100	2-2	1-575	100	100	1-5	B8B	P
14E6	264 *98 130		12-5	8	250		9-3	1-9	100		1-9	B8B	DDT
14E7	269 854 130		12-5	3	250	100	7-5	1-3	100	100	1-3	B8B	DDP
14F6	026 540 310		14	16-5	250	250	35	2-5	100	150	2-5	A08	P
14F7	217 446 130		12-5	2	250		2-3	1-6	150		1-6	B8B	TT
14F8	427 116 340		12-5	3	250		6	3-3	150		3-3	B8B	TT
14H7	265 114 130		12-5	2	250	150	10	4-2	100	100	4-2	B8B	P
14J7	276 454 130		12-5	{ 3 3	150 250		6-6 1-4	1-4	100 100	60 100	1-4	B8B	TH
14K7	276 454 130		14	{ 2 2	100 200	90	6-4 2-7	2-2 1-5	100 100	60 75	2-8 1-5		
14L7	264 098 130		14	1-6	175		15	1-65	150		1-65	B8A	DDT
14N7	217 446 130		12-5	8	250		9	2-6	100		2-6	B8B	TT
14Q7	266 414 130		12-5	2	100		15	6	100		4-5	B8B	H
14R7	269 854 130		12-5	1	250	100	6-2	3-4	100	100	3-4	B8B	DDP
14S7	276 454 130		12-5	{ 1 2	100 250	100	4-8 4	1-4 2	100 100	60 100	1-6 2-2	B8B	TH
14V7	265 104 130		12-5	2	300	150	9-6	5-8	100	100	5-8		
14W7	265 114 130		12-5	2-2	300	150	10	5-8	100	100	5-8	B8B	P
14X7	264 189 130		12-5	1	250		1-9	1-5	150		1-5	B8B	DDT
14Y4	208 009 130		12-5				30		REC		15mA	B8B	RR
14Z3	281 300 000		12-5				60		REC		20mA	UX4	R
15	265 130 000	G ₁	2	1-5	150	75	1-85	0-75	100	75	0-75	UX5	P
15	264 300 000		2-5	33	250		22	2-35	100		2-0	UX4	T
15A2	645 231 700	G ₁	4	{ 20 3	200 250		4 3-5		100 100	60 100		B7	H
						100							

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
15A6	451 231 600		15	2.9	175	175	36	10	100	100	9	B9A	P
15A8	124 541 360	A ₂	15	{ 8 7.5	250 100		9 45	2.6 7.3	100 100	60 100	2 7.5	A08	TP
15D1	645 231 700	G ₁	13	{ 20 3	200 250	100	4 3.5		100 100	60 100		B7	H
15D2	645 231 700	G ₁	13	{ 20 3	200 250	100	4 3.5		100 100	60 100	0.6 4.6	B7	H
15X6	029 180 310		25				30		REC		15mA	A08	RR
16	280 300 000		7.5				60		REC		20mA	UX4	R
16A5	*41 23* 6*5		16	14.2	200	200	45	7.5	100	100	7	B9A	P
16A8	414 237 516		16	{ 1.5 11.5	175 175	175	1.7 41	2.4 7.5	100 100	60 100	3.0 6.0	B9A	TP
160N8	414 237 516		15	{ 16 100	200 100	200	35 3.3	6.4 3.6	100 100	100 60	3.6	B9A	TP
16D1	046 231 700		13		300		45		100			B7	TT
17	264 130 000		14	6	90		2.7	0.8	80		0.8	UX5	T
17AV5	421 060 350		16	22.5	250	150	57	5.9	100	100	5.8	A08	P
17AX4	001 080 230		16				120		REC		35mA	A08	R
17BQ6	020 540 310	A ₁	17	22.5	250	150	75	6.6	125	100		A08	P
17C5	142 345 600		16	7.5	125	100	49	7.5	100	90	6	B7G	P
17C8	541 236 891		17	2	200	125	5	2.2	100	100	2	B9A	DDP
17D1	869 231 500	G ₁	13	3	250	125	9	1.1	100	100	1.1	B7	DDP
17DQ6	020 540 310	A ₁	16	22.5	250	150	75	6	125	100		A08	P
17N8	541 236 891		17	2.0	200	75	5	2.2	100	75	2	B9A	DDP
17Z3	*** 23* **8	C	17				120		REC		60mA	B9A	R
18	265 413 000		14	16.5	250	250	34	2.5	100	PenLF	2.5	UX6	P
18A5	421 060 350		18	17	200	125	40	4.8	100	100		A08	P
18AK5	412 365 100		18	2.5	175	125	7.7	5.1	125	100	5.1	B7G	P
18AQ5	412 365 100		18	7.2	175	175	28	3.5	100	125	3.5	B7G	P
18C51	214 607 413		18	2	150		8.2	5.5	126		5.4	B9A	TT
18J6	672 344 100		18	1	100		6.5	5	100		5	B7G	T
19	364 472 000		2	3	150		1.7		100			UX6	TT
19AJ8	541 237 164		19	{ 3.0 2.0	100 250	100	5.0 6.5	2.3 2.4	100 150	60 100	2.3 2.4	B9A	TH
19AQ5	412 365 400		19	12.5	250	200	47	4.1	100	150	4	B7G	P
19AU4	**1 080 230		19				120		REC		40mA	A08	R
19BD	**1 23* **8		19				60		REC		16mA	B9A	R
19BG6	021 040 350	A	19	15	250	250	75	6.0	100	PenLF	6.0	A08	P
19BY7	141 213 651		19	2	160	100	9.7	5.9	200	100	6	B9A	P
19C8	8† 239 146		19	1	100		0.5	1.25	100		1.25	B9A	DDDT
19D8	541 237 464		19	{ 0 2.6	100 200	125	13.5 7.6	3.7 2.4	100 100	60 100	3.7 2.4	B9A	TH
19G3	020 000 300	D ₁	4				30		REC		17mA	A08	R
19G6	112 311 100	D ₁	4				30		REC		15mA	B7G	R
19H1	002 300 000	D ₁	4				60		REC		23mA	B4	R
9H4	020 000 300	D ₁	2.5				30		REC		13mA	A08	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
19J6	762 344 100		19	1	100		8.5	5.3	100		5.3	B7G	TT
19SU	**1 23* **8		19				120		REC		36mA	B9A	R
19T8	†91 238 146		19	3	250		1	1.2	150		1.2	B9A	DDDT
19U3	**1 23* **8		19				120		REC		40mA	B9A	R
19V8	681 234 †19		19	3	250		1	1.2	100		1.3	B9A	DDDT
19W3	**1 23* *08		19				120		REC		35mA	B9A	R
19X3	**1 23* **8		19				120		REC		60mA	B9A	R
19X8	146 231 457		19	{ 1.0 1.8	100 250	150	8.5 7.7	5.8 5.6	100 100	60 150	5.0 4.0	B9A	TP
19Y3	**1 23* **8		19				120		REC		60mA	B9A	R
20	364 200 000		3	16.5	90		3	0.415	80		0.4	UX4	T
20A1	645 231 700	G ₁	4	{ 12.5 1.5	100 250	75	2.3 2.2		100 100	60 75	1.2 2.8	B7	TH
20D1	182 310 900		9.5				5		D			B7G	RR
20D2	745 231 600	G ₁	13	{ 7.5 3	100 250	100	3.8 2.5		100 100	60 100		B7	TH
20D3	541 227 463		6	{ 1 3	100 250	100		3.6	100 100	60 100	3.6	B9A	TH
20F2	260 154 130		11	1.25	150	150	27	10.6	100	100	9.0	B8A	P
20J8	027 546 310	G ₁	20	{ 1.5 3	100 250	100	1.5 1.5		100 100	100		A08	H
20L1	274 164 130		12	12.0	250		10.0	2.8	100		2.8	B8A	TT
20P1	020 540 310	A	38	30	200	200	80	6	100	100	5	A08	P
20P2	020 540 310	A	38	7.5	225	225		13.5	100	100	10	A08	P
20P3	026 540 310		20	9.4	175	175	42	7.2	100	100	6	A08	P
20P4	020 540 310	A	38	33	200	200	100	6	No Data Available			A08	P
20P5	260 054 130		20	6.3	180	150	29	7.5	100	100	7.0	A08	P
21A6	*41 23* *51	A	21	28	200	200	40	6	100	100	5	B9A	P
21A7	276 454 130		21	{ 150 3			3.5 1.3		100 100	60 100		B8B	TH
21B6	*41 23* *51	A ₁	21	23	175	175	45	6.5	100	100		B9A	P
21TH8	027 546 310	G ₁	21	{ 2.5 1.5	100 200	90	4 3	2 0.75	100 100	60 90	2	A08	TH
22	365 200 000	G ₁	3	1.5	150	50	1.7	0.375	125	60	0.5	UX4	P
22AC	265 300 000	G ₁	2.5	3	90	90	4	1.05	80	90	1	UX4	P
24	264 300 000		2	13.5	175		8	1.6	100		1.2	UX4	T
24A	265 130 000	G ₁	2.5	3	175	90	4	1	100	90	1	UX5	P
24E	265 130 000	G ₁	2.5	3	175	90	4	1	100	90	1	UX5	P
24NG	281 193 000		40				30		REC		15mA	UX6	RR
24S	265 130 000	G ₁	2.5	3	175	90	4	1	100	90	1	UX5	P
25	542 300 000	A	2		150	75	2.5	1	100	75	1	B5	P
25	268 843 000		2	3	125		1	0.5	125		0.5	UX6	DDT
25A6	026 540 310		25	18	150	125	33	2.375	100	90	3.5	A08	P
25A7	126 548 310		25	{ 15 0	100 125	100	60 20.5	1.8	REC 100	90	20mA 1.8	A08	RP
25ACID	206 008 030	G ₁	1.4	0	125		0.76	0.4	100		0.3	A08	DT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
25AV5	421 060 350		25	22.5	250	150	57	5.9	100	100	5.8	A08	P
25AX4	001 080 230		25				120		REC		30mA	A08	R
25B6	026 540 310		25	22	150	150	61	5	100	100	5	A08	P
25B8	127 561 340	G ₁	25	1.0	100		0.6	1.5	100	60	1.5	A08	TP
				3.0	100	100	7.6	2.0	100	100	2.0		
25BG6	021 040 350	A ₁	25	22	125	125	69	5.0	No Data Available			A08	P
25BK5	604 231 450		25	5	250	250	35	8.5	100	150	8	B9A	P
25BQ6	020 540 310	A	25	22.5	250	150	57	5.9	100	100	5	A08	P
25C5	142 345 600		25	7.5	125	100	49	7.5	100	90	6	B7G	P
25C6	026 540 310		25	14	200	150	61	7.1	100	100	7	A08	P
25CA5	142 345 600		25	4.5	125	125	36	9.2	125	125	9.2	B7G	P
25CD6	021 040 350	A	25	30.0	175	175	75	7.5	100	100	7.5	A08	P
25CU6	020 540 310	A	25	22.5	250	150	57	5.9	100	100	6.0	A08	P
25D8	127 546 380	G ₁	25	1.0	100		0.5	1.1	100	60	1.1	A08	DTP
				3.0	100	100	8.5	1.9	100	100	1.9		
25DN6	021 040 350	A ₁	25	18	125	125	70	9	No Data Available			A08	P
25DQ6	020 540 310	A ₁	25	22.5	250	150	75	6	100	100		A08	P
25E5	020 540 310	A ₁	25	21	175	175	100	11	No Data Available			A08	P
25EC6	021 040 350	A ₁	25	22.5	125	125	70	7.5	No Data Available			A08	P
25FID	206 501 040	G ₁	1.4	2.5	125	125	1.2	0.72	100	100	0.7	A08	P
25F5	142 345 600		25	7.5	100	100	37	5.8	No Data Available			B7G	P
25L6	026 540 310		25	8.25	200	125	46	8	100	90	8	A08	P
25MK15	002 380 100		25				25		REC		20mA	B7G	R
25RE	281 193 000		25				30		REC		15mA	UX6	RR
25S	268 943 000		2	3	150		0.8	0.57	100		0.57	UX6	DDT
25SN7	461 471 230		25	8	250		9	2.6	REC		2.5	A08	TT
25T3G	020 000 310	D ₁ D ₂	25				60		REC		15mA	A08	RR
25U4	001 080 230		25				120		100		30mA	A08	R
25V5	028 190 310		25				60		REC		20mA	A08	R
25W4	001 080 230		25				120		REC		30mA	A08	RR
25W6	026 540 310		25	8.5	250	125	46	8	100	100	8	A08	P
25W9	001 080 230		25				120		REC		30mA	A08	R
25X4	020 080 310		25				120		REC		30mA	A08	R
25X5	020 080 310		25				120		REC		30mA	A08	RR
25X6	028 190 310		25				30		REC		15mA	A08	RR
25Y4	020 080 310		25				60		REC		20mA	A08	R
25Y5	281 193 000		25				60		REC		40mA	UX6	RR
25Y5G	028 190 310		25				60		REC		40mA	A08	RR
25Y6	028 190 310		25				30		REC		15mA	A08	RR
25Z3	281 300 000		25				60		REC		20mA	UX4	R
25Z4	028 080 310		25				120		REC		60mA	A08	R
25Z5	291 183 000		25				60		REC		60mA	UX6	RR
25Z6	029 180 310		25				60		REC		60mA	A08	RR
26	264 300 000		1.5	10	150		5.5	1.1	100		1.1	UX4	T
26A6	412 365 100		26	1.8	250	250	10.5	4	100	100	4	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	V _f	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	I _a mA	mA/V	Anode Volts	Screen Volts	mA/V		
26A7	414 752 360		26	4.5	30	30	20	5.5	No Data Available			A08	PP
26AQ8	641 237 410		26	1.5	175		8.7	6	100		6	B9A	TT
26B6	026 540 310		35	18	250	125	33	2.375	100	90	2.3	A08	P
26BK6	412 389 600		26	2	250		1.2	1.6	150		1.6	B7G	DDT
26BQ6	020 540 310	A ₁	25	22.5	250	150	55	5.8	100	100		A08	P
26C6	412 398 600		26	9	250		9.5	1.9	100		1.9	B7G	DDT
26CG6	412 365 100		26		250	150	9	2	100	100		B7G	P
26D6	412 365 100		26	0	100	100	2.7	7.2	100	100	6	B7G	H
26E6	026 540 310		26	14	200	125	60	7.1	100	100	7	A08	P
26NG	281 193 000		40				30		REC		15mA	UX6	RR
26Z5V	801 229 013		13				30		REC		15mA	B9A	RR
26Z6	801 239 010		26				60		REC		15mA	B9A	RR
27	264 130 000		2.5	21	250		5.2	0.95	100		0.95	UX5	T
27S	264 130 000		2.5	21	250		5.2	0.95	100		0.95	UX5	T
27SU	320 080 210		13				120		REC		70mA	A08	R
27SV	230 080 310		13				180		REC		40mA	A08	R
28AK8	8†1 239 146		28	2	200		1.3	1.5	100		1.4	B9A	DDDT
28AX8	8†1 239 146		28	1.0	100		0.8	1.4	100		1.45	B9A	DDDT
28D7	245 671 430		28	3.5	30	30	12.5	3.4	No Data Available			B8B	PP
28Z5	208 009 130		28				60		REC		20mA	B8B	RR
29	264 413 000		2.5	3	175		4.5	1.45	100		1.4	UX6	T
29C1	220 283 330		4						D			A08	D
30	364 200 000		2	9	150		3	0.9	100		0.9	UX4	T
30A5	142 345 600		30	6.7	100	100	43	9.2	No Data Available			B7G	R
30C1	645 237 114		9	{ 2.0 2.0	100 175		14 10.0	5.0 6.6	100 100	60 150	5.1 6.0	B9A	TP
30F5	141 230 651		7.5	1.8	175	175	10	8.8	100	100			
30FL1	641 237 541		9.4	{ 7.9 2.1	200 175		10 10	3.6 7.5	100 100	60 100		B9A	TP
30GP9	026 543 100		30	19	200	200	45	3.5	100	100			
30LI	147 234 116		7.5	3.4	150		26.0	6.6	100		6.0	B9A	TT
30P4	02* 540 310	A ₁	25	21	175	175	100	11	No Data Available			A08	P
30P12	*41 23* 6*5		12	10.3	175	175	31	6.7	100	100		B9A	P
30P14	026 540 310		13	9.4	175	175	42	7.2	100	100		A08	P
30P16	041 230 605		16	14.2	200	200	45	8.2	100	100	7	B9A	P
30PL1	641 237 154		13	{ 7.9 9.6	200 175		10 28	3.4 6	100 100	60 100		B9A	TP
30X	264 300 000		2	12.5	175		3.1	9.3	100		9		
31	364 200 000		2	22.5	150		8	0.925	100		0.9	UX4	T
31A3	280 000 130		31				60		REC		20mA	B8A	R
32	365 200 000	G ₁	2	3	150	75	1.7	0.64	100	75	0.6	UX4	P
32E	365 200 000	G ₁	2	3	150	75	1.7	0.64	100	75	0.6	UX4	P
32L7	126 548 310		32.5	{ 5	90	90	60 38		REC 80		20mA 6	A08	RP
							6			75			
33	364 520 000		2	14	150	150	14.5	1.45	100	100	1.4	UX5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
33A/100A	020 440 310	A ₁ A ₂	6	14	300		10	3	No Data Available			A08	TT
33A/138A	204 140 300	A ₁ A ₂	7	7	250		15	3	100		3	UX7	TT
33A/158M	216 447 130		6	5	200		20	2.8	200		2.8	B8B	TT
33B/152M	421 342 134	A ₁ A ₂	6	1	300		40-0	18.5	No Data Available			B9G	TT
34	365 200 000	G ₁	2	3	150	75	2.8	0.6	100	75	0.6	UX4	P
													/
34E	365 200 000	G ₁	2	3	150	75	2.8	0.6	100	75	0.6	UX4	P
35	265 130 000	G ₁	2.5	3	250	90	6.5	1.05	100	75	1.05	UX5	P
35A5	265 004 130		35	8	200	100	41	5.9	100	90	5.9	B8B	P
35B5	412 365 400		35	7.5	125	100	40	5.8	100	90	5.8	B7G	P
35C5	142 345 600		35	7.5	125	100	40	5.8	100	90	5.8	B7G	P
35L6	026 540 310		35	7.5	200	100	40	5.8	100	90	5.8	A08	P
35QL6	451 236 154		35	11.5	175	175	52	9.5	100	100	8.3	B8A	P
35RE	281 193 000		35				60		REC		20mA	UX6	RR
35S	265 120 000	G ₁	2.5	3	250	90	6.5	10.8	100	90	1.8	UX5	P
35W4	002 383 100		27.5				60		REC		70mA	B7G	R
													/
35X4	**2 38* 100		35				60		REC		20mA	B7G	R
35Y4	280 200 130		27.5				60		REC		20mA	B8B	R
35Y5	280 200 130		27.5				60		REC		20mA	B8B	R
35Z3	280 000 130		35				120		REC		60mA	B8B	R
35Z3LT	280 000 130		35				120		REC		60mA	B8B	R
35Z4	020 080 310		35				120		REC		60mA	A08	R
35Z4GT	020 080 310		35				120		REC		60mA	A08	R
35Z5	022 080 310		27.5				60		REC		60mA	A08	R
35Z6	028 190 310		35				60		REC		20mA	A08	RR
36	265 130 000	G ₁	6	3	250	90	3.2	1.08	100	90	1.08	UX5	
37	264 130 000		6	18	250		7.5	1.1	100		1.1	UX5	T
38	265 130 000	G ₁	6	18	175	175	14	1.05	100	100	1.05	UX5	P
39	265 130 000	G ₁	6	3	175	90	5.8	1	100	90	1	UX5	P
40	364 200 000		5	1.5	175		0.2	0.2	150		0.2	UX4	T
40PPA	045 231 600		40	25	150	150	36	2	100	100	4	B5	P
40SUA	802 310 000		40				60		REC		60mA	B5	R
40Z5	022 080 310		35				120		REC		30mA	A08	R
41	265 413 000		6	18	250	250	32	2.3	100	100	2.3	UX6	P
41E	265 413 000		6	18	250	250	32	2.3	100	100	2.3	UX6	P
41FP	642 310 000		4	18	250		19	2.8	100		2.8	B5	T
41M	026 540 310		6	18	250	250	32	2.3	100	PenLF	2.3	A08	P
41MDG	652 310 000	G ₁	4	0	150	100		0.25	150	100	0.25	B5	P
41MH	642 310 000		4	1.5	200		3.2	3	100		4	B5	T
41MHF	642 310 000		4	2	150		2.5	2.8	125		2.8	B5	T
41MHL	642 310 000		4	3	200		4	3.1	100		4.5	B5	T
41MLF	642 310 000		4	4.5	175		7.5	1.9	125		1.9	B5	T
41MP	642 310 000		4	7.5	200		24	6.0	100		7.5	B5	T
41MPG	454 231 600	G ₁	4	1.5	250	100	3.3		100	100		B7	H
41MPT	041 231 500	A ₁	4	1.5	250	100	12	4.8	100	100	4.8	B7	P
41MRC	642 310 000		4	1	200		2.5	2.6	150		2.6	B5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
41MSG	465 230 574		4	1.5	125	60	0.8	2.5	100	60	2.5	B9	PP
41MTA	642 310 000		4	1	100		4.9	4	100		4	B9	T
41MTB	642 310 000		4	1	100		3.6	2.6	100		2.6	B5	T
41MTL	642 310 000		4	2.5	200		5.9	3	100		3	B5	T
41MTS	645 231 700		4	1	250	100	5	1.6	100	100	1.6	B7	PP
41MVSG	542 310 000	A ₁	4	1.5	200	200	3	2	100	100	2	B5	P
41MXP	642 310 000		4	12.5	200		40	6.0	100		7.5	B5	T
41STH	645 231 700	G ₁	4	1.5	100		2		200	100	1.6	B7	TH
				1.5	200	60	1		100	60	2.5		
42	264 300 000		1.5	13.5	175		3.9	0.8	100			UX4	T
42	265 413 000		6	16.5	250	250	34	2.5	100	PenLF	2.5	UX6	P
42E	265 413 000		6	16.5	250	250	34	2.5	100	PenLF	2.5	UX6	P
42MP/Pen	045 231 600		4	5.5	250	250	32	6	100	PenLF	7	B7	P
42MPT	041 231 500	A	4(5)	3	200	200	34	8.5	100	PenLF	8	B7	P
42/OT	045 231 600		4	5.5	250	275	34	7	100	PenLF	7	B7	P
42/OTDD	968 231 500	G ₁	4	5.5	250	250	34	7	100	PenLF	7	B7	DDP
42PTB	061 231 500	G ₁	4	3	200	200	34	8.5	100	150	8	B7	P
42SPT	041 231 500	A	4	10.5	250	250	64	11	100	PenLF	10	B7	P
43	265 413 000		25	18	150	125	33	2.375	100	100	2.3	UX6	P
43E	265 413 000		25	18	150	125	33	2.375	100	100	2.3	UX6	P
43MG	026 540 310		25	18	250	125	33	2.375	100	100	2.3	A08	P
43IU	892 300 000		4(5)				60		REC		20mA	B4	RR
44	265 130 000	G ₁	6	3	175	90	5.8	1	100	90	1	UX5	P
44A/J60M	241 657 143		6	14	250	250	30	3.9	100	100	3	B9G	PP
44IU	892 300 000		4				60		REC		30mA	B4	RR
44SU	802 300 000		4				30		REC		15mA	B4	R
45	264 300 000		2.5	50	250		34	2.175	100		2.1	UX4	T
45A	264 300 000		2.5	68	325		43	2.37	100		2.37	UX4	T
45A5	26* *54 130		45	9	175	175	54	9.5	100	100	7	B8A	P
45B5	041 23* 6*5		45	12.5	175	175	70	10	100	100		B9A	P
45IU	892 300 000		4(5)				120		REC		30mA	B4	RR
45LIU	206 540 130		45	13	200	200	45	7.5	100	100	7	A08	P
45Z3	28* 108 300		45				60		REC		70mA	B7G	R
45Z5	022 080 310		37.5				60		REC		20mA	A08	R
46	264 630 000		2.5	33	250		22	2.35	100		2.3	UX5	T
47	264 530 000		2.5	16.5	250	250	31	2.5	100	PenLF	3.8	UX5	P
48	265 413 000		30	10	100	100	52	3.8	100	90	3.8	UX6	P
49	264 630 000		2	20	125		6	1.125	100		1.1	UX5	T
50	264 300 000		7.5	70	400		55	2.1	100		2.1	UX4	T
50A5	265 004 130		50	7.5	125	100	49	8	100	90	7	B8B	P
50AX6	028 190 310		50				120		REC		30mA	A08	RR
50B5	412 365 400		50	7.5	125	100	49	7.5	100	90	6	B7G	P
50BK5	604 231 450		50	5	250	250	35	8.5	100	PenLF		B9A	P
50CID	206 089 030	G ₁	1.4	1.5	100		1.5	0.92	100		0.92	A08	DDT
50C5	142 345 600		50	7.5	125	100	49	7.5	100	90	6	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
50C6	026 540 310		50	13.5	150	150	58	7	100	100	7	A08	P
50CD6	021 040 350	A	50	30	175	175	75	7.5	100	100	7	A08	P
50F2D	206 501 030	G ₁	1.4	1.5	100	125	1.4	1	100	100	1	A08	P
50LID	206 540 030		1.4	4.5	100	125	4.8	1	100	100	1	A08	P
50L6	026 540 310		50	8.25	200	125	46	9.5	100	75	8	A08	P
50X6	219 008 130		50				60		REC		20mA	B8B	RR
50YIU	388 208 120		45				120		REC		30mA	A08	R
50Y6	029 180 310		50				60		REC		20mA	A08	RR
50Y7	028 193 310		46				60		REC		20mA	A08	RR
50Z6	029 180 310		50				120		REC		30mA	A08	RR
50Z7	029 183 310		48				60		REC		20mA	A08	RR
51	265 130 000	G ₁	2.5	3	250	90	6.5	10.5	175	90	10.2	UX5	P
52	264 530 000		6	1	255	100	41	2	125	100	2	UX5	P
52CD6	021 040 350	A	52									A08	P
52KU	030 908 020		5				60		REC		30mA	A08	RR
53	275 146 300		2.5	5	250		3	1.6	100		3.1	UX7	TT
53KU	030 908 020		5(5-7)				120		REC		40mA	A08	RR
54KU	030 908 020		5				120		REC		60mA	A08	RR
55	269 813 000	G ₁	2.5	20	250		8	1.1	100		1.1	UX6	DDT
55A/165M	245 761 430		12	15	150	150	60	4	100	100		B8G	PP
56	264 130 000		2.5	13.5	250		5	1.45	100		1.45	UX5	T
56AS	264 130 000		6	13.5	250		5	1.45	100		1.45	UX5	T
57	265 113 000	G ₁	2.5	3	250	100	2	1.225	100	100	1.2	UX6	P
57AS	265 113 000	G ₁	6	3	250	100	2	.22	100	100	1.2	UX6	P
58	265 113 000	G ₁	2.5	3	250	100	8	1.5	100	100	1.5	UX6	P
58AS	265 113 000	G ₁	6	3	250	100	8	1.5	100	100	1.5	UX6	P
59	265 411 300		2.5	18	250	250	35	2.5	100	PenLF	2.5	UX7	P
59B	265 410 300		2.5	26	250	250	26	6	100	PenLF	6	UX7	P
60/250	892 300 000		4				30		REC		15mA	B4	RR
61BT	020 540 310	A	6	20	200	200	40	4	100	100	4	A08	P
61SPT	520 604 310		6	10.5	250	250	64	11	100	PenLF	9	A08	P
61SPT	021 540 310	A	6	10.5	250	250	64	11	100	PenLF	9	A08	P
62BT	020 540 310	A	6	18	175	175	100	10	100	100	9	A08	P
62DDT	264 098 130		6	3	250		1.00	1.3	150		1.3	B8A	DDT
62TH	276 454 130		6	{ 2 2	{ 100 150	{ 100	{ 5 8	{ 2.2 2	{ 100 100	{ 100	{ 2.6 3.5	{ B8A B8A	{ DDT TH
62VP	261 154 130		6	2.5	250	100	6	2.2	100	100	2	B8A	P
63	020 540 230	A ₁	1.2	22.5	250	125	25		100	100		A08	P
63SPT	256 101 403		6	2	250	250	10	6.5	100	PenLF	6	B9G	P
63TI	641 237 154		6	{ 2.3 8	{ 100 200	{ 200	{ 4 17.5	{ 1.4 3.3	{ 100 100	{ 60 PenLF	{ 1.4 3	{ B9A B9A	{ TP TP
63TP	641 237 154		6.3	{ 2.3 8	{ 100 200	{ 200	{ 4 17	{ 1.9 3.3	{ 100 100	{ 60 150	{ 1.4 3	{ B9A B9A	{ TP TP
64	265 130 000	G ₁	6	3	175	90	3.1	1.05	100	90	1.05	UX5	P
64SPT	111 230 651		6.3	2	175	175	10	7.4	100	100	6	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
65	265 130 000	G ₁	6	3	175	90	4.5	1	100	90	1	UX5	P
66KU	280 009 130		6				30		REC		15mA	B8A	RR
67	264 130 000		6	9	150		5	1.1	100		1.1	UX5	T
67PT	261 054 130		6	7	250	250	36	10	100	50	9	B8A	P
68	265 130 000	G ₁	6	13.5	150	90	14	1.4	100	75	1.4	UX5	P
68A	265 130 000		6	13.5	125	125	14	1.4	100	100		UX5	P
69	264 413 000		6	3	175		4.5	1.45	150		0.5	UX6	T
70	264 413 000		6	6	175		2.3	0.5	150		0.5	UX6	T
70A7	126 548 310		70	{ 7.5	125	100	60		REC		15mA	{ A08	RP
							40	5.8	100	90	5.8		
70L7	126 541 380		70	{ 7.5	125	100	60		REC		20mA	{ A08	RP
							40	7.5	100	90	6.5		
71	264 300 000		5	40	175		20	1.7	100		1.7	UX4	T
71A	264 300 000		5	16.5	90		10	1.4	80		1.4	UX4	T
71B	264 300 000		5	40	175		20	1.7	100		1.7	UX4	T
72	300 200 000	D ₁	2.5				30		REC		15mA	UX4	R
73	*2* 0** 3*0	D ₁	2.5				15		REC		10mA	A08	R
75	269 813 000	G ₁	6	2	250		0.9	1.1	150		1.1	UX6	DDT
76	264 130 000		6	13.5	250		5	1.45	100		1.4	UX5	T
77	265 113 000	G ₁	6	3	250	100	2.3	1.25	100	100	1.2	UX6	P
77E	265 113 000	G ₁	6	3	250	100	2.3	1.25	100	100	1.2	UX6	P
78	265 113 000	G ₁	6	3	250	125	10.5	1.65	100	100	1.6	UX6	P
78E	265 113 000	G ₁	6	3	175	75	4	1.1	100	75	1.1	UX6	P
79	274 163 000	G ₁	6	0	250		5.3	1.8	150		1.8	UX6	TT
80	298 300 000		5(5.7)				60		REC		20mA	UX4	RR
80M	289 300 000		5(5.7)				60		REC		20mA	UX4	RR
81	280 300 000		7.5				60		REC		20mA	UX4	R
81M	280 300 000		7.5				60		REC		20mA	UX4	R
82	289 300 000		2.5				60		REC		20mA	UX4	RR
82V	389 200 000		2.5				60		REC		20mA	UX4	RR
83	289 300 000		5				120		REC		20mA	UX4	RR
83V	398 200 000		5				60		REC		60mA	UX4	RR
84	289 130 000		6				30		REC		30mA	UX5	RR
85	269 813 000	G ₁	6	20	250		8	1.1	100		1.1	UX6	DDT
85AS	268 913 000	G ₁	6	20	250		8	1.11	100		1.1	UX6	DDT
85S	268 913 000	G ₁	6	10.5	250		3.7	0.75	125		1.1	UX6	DDT
88	289 300 000		5				60		REC		20mA	UX4	RR
89	265 113 000	G ₁	6	10	100	100	9.5	1.2	100	90	1.2	UX6	P
90	264 413 000		2.5	0	150		3.5	1.4	150		1.4	UX6	T
90AC	642 310 000		4	12.5	200		40	7.5	100		7	B5	T
92	264 413 000		6	0	250		3.5	1.4	100		1.4	UX6	T
95	265 413 000		2.5	20	325	300	42	2.3	100	PenLF	2.3	UX6	P
96	281 300 000		10				120		REC		30mA	UX4	R
98	289 130 000		6				30		REC		15mA	UX5	RR
99V	426 300 000		3.3	4.4	90		2.5	0.42	100		0.42	UX4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
99X	264 300 000		3.3	4.5	90		2.5	0.42	100		0.42	UX4	T
100AC	642 310 000		4	6	200		5	2	100		2	B5	T
104V	642 310 000		4	1	100		15	3.5	100		3.5	B5	T
112A	364 200 000		5	4.5	90		5	1.575	80		1.5	UX4	T
114	020 000 300	A ₁ G ₁	1.4		175		15		100			A08	T
114B	020 000 300	A ₁ G ₁	1.4	4.0	175		12	1.1	100		1.1	A08	T
116/Pen	005 231 600	G ₁	11.5	1	100	100		7	100	100	6	B7	P
117L7	126 458 310		117	{ 5.2	100	100	60		REC		20mA	A08	RP
					100	100	43	5.3	100	90	5.3		
117M7	126 458 310		117	{ 5.2	100	100	60		REC		20mA	A08	RP
					100	100	43	5.3	100	90	5.3		
117Z3	*02 381 000		117				60		REC		20mA	B7G	R
117Z4	020 080 310		117				60		REC		20mA	A08	R
117Z6	029 180 310		117				60		REC		20mA	A08	RR
120	642 310 000		2	12	150		12		100			B5	T
121VP	26* *54 130		12.5	3.0	200	126	7.2	2.3	100	150	2.3	B8A	P
124AC	542 310 000	A	4	1.4	200	60	1.6	0.9	100	60	0.9	B5	P
141DDT	264 089 130		14	1.55	170		1.5	1.65	100		1.5	B8A	DDT
141TH	276 454 130		14	{ 2	100		5.0	2.0	100	60	2.8	B8A	TH
					250	100	8.0	2.2	100	75	1.5		
142BT	026 540 310		14	8.5	200	200	29	3.7	100	100	3.7	A08	P
144V	642 310 000		4	8	200		6	1.4	100		1.4	B5	T
154V	642 310 000		4	6	200		9	2	100		2	B5	T
163Pen	041 23* 6*5		16	10.4	175	175	53	9.5	No Data Available			B9A	P
164V	642 310 000		4	9	200		12	3.4	100		3.4	B5	T
171DDP	541 236 891		17	2	200	125	5	2.2	100	100	2	B9A	DDP
181	264 300 000		3	30	175		16	1.05	100		1.05	UX4	T
182A	264 300 000		5	45	200		18	1.5	100		1.5	UX4	T
182B	264 300 000		5	35	250		18	1.5	100		1.5	UX4	T
182B	264 300 000		5	35	250		18	1.5	100		1.5	UX4	T
183	264 300 000		5	60	250		30	1.7	100		1.7	UX4	T
185BT	020 540 310	A ₁	18	18	175	175	100	9.5	100	100	8	A08	P
185BTA	020 540 310	A ₁	18	18	175	175	100	9.5	100	100	8	A08	P
200A	264 300 000		5	0	50		1.5	0.67	No Data Available			UX4	T
202DDT	809 231 600	G ₁	20	3	200		3	2.4	150		2.4	B7	DDT
202MPG	545 231 600	G ₁	20	1.5	200	100	3.0		100	100		B7	H
202SPB	061 231 500	G ₁	20	1.5	250	100	4.8	2.8	100	100	2.8	B7	P
202STH	645 231 700	G ₁	20	{ 1.5	100		2		100	60		B7	TH
					200	60	1		100	60			
202VP	041 231 500	A	20	1.5	250	100	4.3	2.2	100	100	2.2	B7	P
202VPB	061 231 500	G ₁	20	1.5	250	100	3.3	2.2	100	100	2.2	B7	P
203THA	545 231 600	G ₁	20	2	250	100	3.5		100	100		B7	H
205D	264 300 000		3.5	29	400		30		100		1.8	UX4	T
205E	264 300 000		4.5	22.5	350		29	1.94	No Data Available			UX4	T
205F	264 300 000		4.5	18	300		31	1.75	No Data Available			UX4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
210DDT	682 390 000	G ₁	2	1	100		2.3	1.1	100		1.1	B5	DDT
210DET	642 300 000		2	4.5	150		3	1.1	100		1.1	B4	T
210HF	642 300 000		2	3	150		1.6	1.5	100		1.5	B4	T
210HL	642 300 000		2	3	150		1.6	1.1	100		1.1	B4	T
210HPT	642 350 000		2	4.5	150	175	7.5	2.5	100	100	2.5	B5	P
210LF	642 300 000		2	4.5	150		4.8	1.4	100		1.4	B4	T
210PG	645 230 700	G ₁	2	{ 0	150	40	1.1		150	60	0.4	B7	H
210RC	642 300 000		2		150		0.4		150	75	1.5		
210SPG	645 230 700	G ₁	2	{ 0	150		0.85	0.8	150		0.8	B4	T
210SPT	041 230 500	A	2		150	40	1.1		150	75	0.5	B7	H
210T	264 300 000		7.5	32	350		0.5		150	75	1.5	B7	P
210VPA	041 230 500	A	2	1	150	60	2.9	1.11	150	60	1.3	B7	P
210VPT	041 230 500	A	2	1	150	60	1.9	1.1	150	60	1.1	B7	P
213	289 300 000		5				30		REC		15mA	UX4	RR
213Pen	*41 23* *51	A ₁	21	22	175	175	45	6.2	100	100	6	B9A	P
215P	642 300 000		2	7.5	150		10	2.25	100		2.2	B4	T
215SG	542 300 000	A	2	1	150	60	1.4	1.1	150	60	1.1	B4	P
217A	228 300 000		10				120		REC		30mA	UX4	R
220B	446 230 700		2	3	150		5.0	1.5	100		1.5	B7	TT
220DD	892 310 000		2						D			B5	DD
220HPT	642 350 000		2	4.5	150	150	8	2.5	100	100	2.5	B5	P
220IPT	040 230 500	A	2	1.5	125	60	2.2	1	100	60	1	B7	P
2200T	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
220P	642 300 000		2	7.5	150		11	2.25	100		2.2	B4	T
220PA	642 300 000		2	4.5	150		10	4	100		4	B4	T
220PT	642 350 000		2	9	150	150	19	2.5	100	100	2.5	B5	P
220SG	542 300 000	A	2	1	150	60	1.5	1.6	100	60	1.6	B4	P
220TH	645 230 700	G ₁	2	{ 3	100		1.7	1.2	100	60	1.2	B7	TH
220VS	542 300 000	A	2		125	60	0.6	0.6	125	60	0.6		
220VSG	542 300 000	A	2	1	100	60	2.0	1.6	100	60	1.6	B4	P
225DU	082 323 900		2				2.6	1.5	100	60	1.6	B4	P
230	642 300 000		2	20	150		18	3	100		3	B7	RR
230	200 300 000	D ₁	5				30		REC		15mA	UX4	R
230PT	642 350 000		2	15	150	150	14	2	100	100	2	B5	P
230XP	642 300 000		2	18	150		22	3	100		2	B4	T
231D	264 300 000		3	3	90		2.1	8.4	100		0.51	UX4	T
240B	446 230 700		2	1	125		8.5		100			B7	TT
240QP	446 235 700		2	12	150	150	6		100	100	2.5	B7	PP
244	264 130 000		2	6	150		5.5	1	100		1	UX5	T
244V	642 310 000		4	5.5	200		5.5	2.8	100		2.8	B5	T
245A	265 130 000	G ₁	2	1.5	150	50	4.8	0.64	No Data Available			UX5	P
247A	206 040 030		2	4.5	150		3.2	0.94	100		0.94	A08	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
249B	223 300 000	D ₁	2.5				120		REC		30mA	UX4	R
252A	264 300 000		5	50	400		60	3.4	100		3.4	UX4	T
255	268 943 000		2	3	150		0.8	0.57	100		0.5	UX6	DDT
257	264 530 000		5	21.5	125	100	200	1.35	100	90	1.3	UX5	P
257A	240 300 000	A ₁	3	3	90		2.1	0.51	100		0.51	UX4	T
259A	265 130 000	G ₁	2	1.5	175	75	5.5	1.38	100	75	1.3	UX5	P
259B	265 130 000	G ₁	2	1.5	175	75	5.5	1.38	100	75	1.3	UX5	P
262B	261 300 000	G ₁	10	4.5	150		2.8	0.9	100		0.9	UX4	T
264	264 300 000		1.1	9	150		2.5	0.64	100		0.64	UX4	T
264E	264 300 000		1.4	8	100		2.1	0.58	100		0.58	UX4	T
264C	264 300 000		1.5	8	100		2.1	0.58	100		0.85	UX4	T
271A	264 130 000		5	30	400		37.5	2.9	100		100	UX5	T
272A	264 130 000		10	15	150		5.4	0.76	100		0.76	UX5	T
274A	289 300 000		5				60		REC		20mA	UX4	RR
274B	289 300 000		5				60		REC		20mA	UX4	RR
275A	264 300 000		5	4.5	200		47	2.7	100		2.7	UX4	T
281A	264 530 000		5	60	150	75	35	1.47	No Data Available			UX5	P
283A	265 130 000	G ₁	2	1.5	175	75	5.9	1.36	100	75	1.36	UX5	P
285	265 130 000	G ₁	2	12	175	150	8.8	0.88	100	100	0.88	UX5	P
286A	265 113 000	G ₁	2	1.5	175	75	6.2	1.2	100	75	1.2	UX6	P
290A	265 113 000	G ₁	10	1.5	175		5.4	1.22	150		1.2	UX6	P
291A	275 641 300	G ₁	10	3	175		4.5		100	60		B7	H
				7.5	175	75	3.1		100	75			
292A	268 913 000	G ₁	10	6	150		2.1	0.66	100		0.66	UX6	DDT
293A	265 413 000		10	18	175	175	14.5	1.05	100	100	1.05	UX6	P
302THA	645 231 700	G ₁	30	2	100		1.5		100	60		B7	TH
					250	100	3.5		250	100			
303A	268 943 000		2	6	150		2	0.64	100		0.64	UX6	DDT
304AC	542 310 000	A	4	2	200	100	3	1.9	100	100	1.9	B5	P
309A	265 413 000		10	1.5	175	75	4.8	1.1	100	60	1.1	UX6	P
310A	265 113 000	G ₁	10	3	150	150	5.5	1.8	100	100	1.8	UX6	P
310B	265 113 000	G ₁	10	3	150	150	5.5	1.8	100	100	1.8	UX6	P
311A	265 130 000	G ₁	10	15	150	150	30	2.8	100	100	2.8	UX5	P
311SU	28* *** 130		31				60		REC		20mA	B8A	R
324A	200 300 000	D ₁	5				5		D			UX4	R
328A	265 113 000	G ₁	7.5	3	150	150	5.5	1.8	100	100	1.8	UX6	P
329A	265 130 000	G ₁	7.5	15	150	150	37.5	3.3	100	100	3	UX5	P
329L	265 130 000	G ₁	7.5	15	150	150	37	3.3	100	100	3	UX5	P
332Pen	026 540 310		33	8.5	200	200	45	8	100	100	7	A08	P
336A	265 413 000		10	14	250	250	30	4.2	100	100		UX6	P
337A	265 113 000	G ₁	10	3	150	150	6.3	1.6	100	100	1.6	UX6	P
345A	289 130 000		6				60		REC		20mA	UX5	RR
347A	020 600 310	G ₁	6	4.5	150		2.8	0.9	100		0.9	A08	T
348A	026 510 310	G ₁	6.3		125	125	5.5	1.8	100	100		A08	P
349A	026 540 310		6	14	250	250	30	4.2	100	PenLF	4.2	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
350B	026 540 310		6	20	400	250	85	6.25	No Data Available			A08	P
351A	028 090 310		1				120		REC		20mA	A08	RR
352A	268 913 000	G ₁	10	6	150		2.1	0.65	100		0.65	UX6	DDT
354V	642 310 000		4	4.5	250		6.5	3.6	100		3	B5	T
361A	243 560 000		1.4		50	40	0.4	0.57	No Data Available			UX5	P
362A	243 560 000		1.4		50	50	1.26	0.56	No Data Available			UX5	P
367A	060 524 310		6	20	400	250	85	6.2	No Data Available			A08	P
373A	021 455 310		2		150	150	2	1.32	100		1.3	A08	P
374A	021 405 310		3		125	125	18	3	125		3	A08	P
375A	026 540 310		20		40	40	12	4.7	No Data Available			A08	P
383A	120 406 030		6		125		7.5	2.8	100		2.8	A08	T
385A	125 040 130		6		125		7.5	2.5	100		2.5	A08	P
387A	125 040 130		6		125		5.6	4	100		3.8	A08	P
401A	265 300 000		5	9	50		1.5	0.8	No Data Available			UX4	T
402	264 300 000		3	40	175		40	1	100		1	UX4	T
402-OT	005 231 600	G ₁	40	12	250	250	32	7	100	PenLF	7	B7	P
402P	000 231 600	G ₁	4	15	200		27	5.5	100		7.5	B7	T
402Pen	005 231 600	G ₁	40	6.7	200	200	40	7	100	100	7	B7	P
402PenA	005 231 600	G ₁	40	9	150	150	56	8	100	100	8	B7	P
403A	413 265 100		6	2.3	150	150	7	4.4	100	100	4	B7G	P
405BU	892 300 000		4				15		REC		10mA	B4	RR
406	642 300 000		4		150		5.5	0.5	100		0.5	B4	T
407A	214 637 412		20	2	150		8.2	5.5	100		5.5	B9A	TT
408BU	892 300 000		4				15		REC		10mA	B4	RR
410HF	642 300 000		4	2.5	200		0.2	0.22	100		0.2	B4	T
410P	642 300 000		4	16	250		12	1.8	100		1.8	B4	T
410RC	642 300 000		4	2.5	200		0.2	0.2	100		0.2	B4	T
410SG	542 300 000	A	4	1	200	100	4.5	0.9	100	100	0.9	B4	P
412BU	892 300 000		4				30		REC		17mA	B4	RR
412SU	802 300 000		4				60		REC		22mA	B4	R
415PT	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
415QT	642 350 000		4	25	300	200	20	1.8	100	PenLF	1.8	B5	P
415SP	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
420T	045 231 600		4	4.4	250	250	40	10.5	100	PenLF	9	B7	P
425PT	642 350 000		4	17	250	150	12	1.3	100	100	1.3	B5	P
435A	402 106 053		6	10	175	150	13	16.3	No Data Available			B9A	P
437A	304 002 116		6	10	150		40		No Data Available			B9A	T
441U	892 300 000		4				60		REC		20mA	B4	RR
442BU	892 300 000		4				60		REC		20mA	B4	RR
446A/B	021 000 310	A ₁ G ₁	6	3	250		15	4.5	100			A08	T
450	642 300 000		4	55	250		50	3.5	100		3.5	B4	T
450	264 300 000		7.5		400		55	2.1	100		2.0	UX4	T
450AC	542 310 000	A	4		200	100	3.5	3	100	100	3	B5	P
451PT	26* *54 130		45	9	175	175	54.5	9.5	100	100	7	B8A	P
451U	823 900 000		4				120		REC		30mA	B4	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
460BU	892 300 000		4				60		REC		20mA	B4	RR
482A	264 300 000		5	45	200		18	1.5	100		1.5	UX4	T
482B	264 300 000		5	35	250		18	1.5	100		1.5	UX4	T
483	264 300 000		5	60	250		30	1.7	100		1.7	UX4	T
484V	642 310 000		4	2.5	200		0.25	1.2	100		1.2	B5	T
485	264 130 000		3	9	175		5.8	1.4	100		1.4	UX5	T
486	026 040 300		3	3	90		3	0.61	80		0.6	A08	T
500	892 300 000		4				30		REC		15mA	B4	RR
506	892 300 000		4				30		REC		15mA	B4	RR
506BU	892 300 000		4				30		REC		15mA	B4	RR
506K	892 300 000		2				30		REC		15mA	B4	RR
509	892 300 000		2				60		REC		20mA	B4	RR
511D	892 300 000		4				60		REC		20mA	B4	RR
538A	741 226 413		6	2	250		10	5.5	200		5	B9A	TT
542A	602 304 100		6	2	250		10	5.5	200		5.5	B7G	T
543A	402 013 060		6	2.5	200		9.5	3.8	100		3	B8D	T
5438	402 013 060		6	2.5	200		9.5	3.8	100		3	B8D	T
544A	602 364 100		6	8.5	250		10.5	2.2	100		3	B7G	T
546A	802 309 100		6				30		REC		15mA	B7G	RR
547A	120 415 360		6	3	300	150	30	11	100	100	10	A08	P
§548A	762 344 100		6	{ 0.85 3	100 150		8.5 5	5.3 4.5			5.3	B7G	TT
549A	192 310 800		6						D			B7G	RR
550A	471 461 230		6	2	250		2.3	1.6	150		1.6	A08	TT
559	021 010 030	D ₁					5		D			A08	R
605	642 300 000		4	6	150		10	1.4	100		1.4	B4	T
612BU	892 300 000		6				30		REC		15mA	B4	RR
615	642 300 000		4	41	150		4	1.4	100		1.4	B4	T
620T	642 300 000		6	95	400		62.5	2.3	100		2.3	B4	T
635GTX	026 040 310		6	20	350		20		No Data Available			A08	T
660	642 300 000		6	100	400		120	2.3	100		2.3	B4	T
680XP	642 300 000		6	100	400		3.5	1.1	100		1.1	B4	T
713A	021 415 350		6	2	125	125	7.5	3.95	100	100	3.9	A08	P
717A	021 415 360		6	2	125	125	7.5	4	100	100	4	A08	P
731A	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
802	205 411 300	A	6	18	400	250	30	2.2	100	PenLF	2.0	UX7	P
805	642 300 000		6	6	150		10	1.4	100		1.4	B4	T
807	254 130 000	A ₁	6	12.5	400	250	83	6.5	100	PenLF	6	UX5	P
816	200 300 000	D ₁	2.5				120		REC		30mA	UX4	R
825	642 300 000		6	0	150		6	1.4	150		1.4	B4	T
825BU	892 300 000		7.5				60		REC		20mA	B4	RR
836	2** 00* 300	D ₁	2.5				120		REC		30mA	B7G	R
840	254 130 000	A	2	3	175	75	1	0.4	100	60	0.4	UX5	P

§ See note on Page 5 regarding Grid Bias.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
842	264 130 000		7.5	100	400		25	1.25	100		1.25	UX5	T
843	264 130 000		2.5	25	350		25	1.7	100		1.7	UX5	T
864	364 200 000		1.1	4.5	90		2.9	0.61	80		0.61	UX4	T
871	200 300 000	D ₁	2.5				120		REC		30mA	UX4	R
879	300 200 000	D ₁	2.5				5		D			UX4	R
884	026 040 310		6		300		55	4KΩ	No Data Available			A08	Thyratron
885	264 130 000		2.5		300		55	4KΩ	No Data Available			UX5	Thyratron
904V	642 310 000		4	2	200		2	2	150		2	B5	T
950	041 230 500	A	2	16.5	175	150	7	0.95	100	100	0.95	B7	P
951	265 300 000	G ₁	2	3	175	60	1.7	0.65	100	60		UX4	P
985	289 130 000		5				30		REC		15mA	UX5	RR
986	289 300 000		5				60		REC		20mA	UX4	RR
994V	642 310 000		4	0	100			3.6	100		3.6	B5	T
1002	802 300 000		1.8				60		REC		25mA	B4	R
1005	008 092 030		6				30		REC		15mA	A08	RR
1007	008 090 230		1.0				60		REC		20mA	A08	RR
1012	289 300 000		1.7				120		REC		30mA	UX4	RR
1028	202 322 200	D ₁	6				60		REC		23mA	7G	R
1103	809 231 600	G ₁	13	2	225		1.5	1.5	100		1.2	BB7	DDT
1130	892 300 000		1.8						D			B4	DD
1201	426 141 630		6	3	175		5.5	3	150		3	B8B	T
1201	892 300 000		2.5				30		D			B4	DD
1203	200 800 130		6						D			B8B	D
1203A	200 800 130		6						D			B8B	D
1204	526 141 310		6	2	250	100	1.75	1.2	100	100	1.2	B8B	P
1206	265 441 730		6	2.5	250	100	4.5	2.1	100	100	2.1	B8B	PP
1221	265 113 000	G ₁	6	3	250	100	2	1.22	100	100	1.2	UX6	P
1223	026 510 310	G ₁	6	3	250	100	2	1.22	100	100	1.2	A08	P
1229	265 300 000	G ₁	2	3	150	75	1.7	0.64	100	75	0.64	UX4	P
1230	264 300 000		2	9	150		3		100			UX4	T
1231	265 104 130		6	30	300	200	13	6.3	100	100	6.3	B8B	P
1232	265 114 130		6	2	250	100	6	4.5	100	100	4.5	B8B	P
1247	000 230 000	D ₁	0.625						D			B8A	D
1273	265 104 130		6	3	250	100	2.2	1.5	100	100	1.5	B8B	P
1274	028 090 310		6				30		REC		15mA	A08	RR
1275	289 300 000		5				120		REC		30mA	UX4	RR
1276	264 300 000		4.3	45	250		60	5.25	No Data Available			UX4	T
1280	265 104 130		12.5	3	250	100	2.2	1.5	100	100	1.5	B8B	P
1282	265 114 130		6	2	300	150	10	5.8	100	150	5.8	B8B	P
1284	265 104 130		12.5	3	250	100	9	2	100	100	2	B8B	P
1288	364 240 730		1.4	0	90		5.2	1.85	80		1.85	A08	TT
1291	274 304 620		1.4		90		5.2	1.85	80		1.85	A08	TT
1292	364 204 730		1.4	0	90		5.2	1.85	80		1.85	A08	TT
1293	260 064 030		1.4	0	90		4.7	1.3	80		1.3	B8B	T
1294	200 800 130		1.4						D			A08	D

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
1299	365 004 230		1.4	4.5	150	90	10.2	2.4	100	90	2.4	B8B	P
1560	289 300 000		5				60		REC		20mA	UX4	RR
1560	892 300 000		5				60		REC		20mA	B4	RR
1561	892 300 000		4				60		REC		20mA	B4	RR
1562	280 300 000		7.5				120		REC		30mA	UX4	R
1602	264 300 000		7.5	23.5	250		10	1.33	100		1.33	UX4	T
1603	265 113 000	G ₁	6	3	250	100	2	1.225	100	100	1.2	UX6	P
1608	264 300 000		2.5	90	400		95		No Data Available			UX4	T
1609	364 520 000		1.1	1.5	125	75	2.5	0.725	100	75	0.72	UX5	P
1610	264 530 000		2.5	16.5	250	250	31	2.5	100	PenLF	3.8	UX5	P
1611	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
1612	026 540 310	G ₁	6	3	250	100	5.3	1.1	100	100	1.1	A08	H
1613	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
1614	026 540 310		6	18	350	250	54	5.2	100	PenLF	5.2	A08	P
1616	200 300 000	D ₁	2.5				120		REC		30mA	UX4	R
1619	026 540 310		2.5	10	300	250	45	4.5	100	PenLF	4.5	A08	P
1620	026 510 310	G ₁	6	3	250	100	2	1.225	100	100	1.2	A08	P
1621	026 540 310		6	16.5	250	250	34	3.5	100	PenLF	2.5	A08	P
1622	026 540 310		6	18	350	250	54	5.2	100	100	5.2	A08	P
1624	026 540 310		2.5	10	300	250	45	4.5	100	PenLF		A08	P
1625	205 401 300	A ₁	12	12.5	400	250	83	6.5	100	PenLF	6	UX7	P
1626	026 040 310		12.5	32	250		20	2.1	100		2.1	A08	T
1631	026 540 310		12.5	18	350	250	54	5.2	100	PenLF	5.2	A08	P
1632	026 540 310		12.5	8	200	100	50	9.5	100	90	9	A08	P
1633	471 461 230		25	8	250		11.5	2.6	100		2.6	A08	TT
1634	074 461 230		12.5	2	250		2	1.325	150		1.3	A08	TT.
1635	027 446 310		6	0	300		3.5	0.9	100		0.9	A08	TT
1637	026 500 310	G ₁	6	18	250	250	32	3.8	100	PenLF	3.8	A08	P
1638	029 180 310		6						D			A08	DD
1639	026 890 310	G ₁	6	5.5	250		5	2	100		2	A08	DDT
1641	200 300 000	D ₁ D ₂	5				120		REC		30mA	UX4	RR
1641/RK60	200 300 000	D ₁ D ₂	5				15		REC		12mA	UX4	RR
1642	216 471 300	G ₁	6	16.5	250		8.3	1.3	110			UX7	TT
1644	414 752 360		12.5	9	175	175	13	2.15	100	100	2.1	A08	PP
1649	021 415 360		6	2	300	150	10	9	100	100	8	A08	P
1654	2** 00* 300	D ₁	1.4						D			B7G	D
1655	074 461 230		6	2	250		2	1.325	200		1.3	A08	TT
1659	268 913 000	G ₁	2.5	2	250		0.9	1.1	150		1.1	UX6	DDT
1662	364 526 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
1664	026 985 310	G ₁	2.5	3	250	125	10	1.325	100	100	1.3	A08	DDP
1701	892 300 000		1.8				120		REC		30mA	B4	RR
1801	892 300 000		4				15		REC		10mA	B4	RR
1805	892 300 000		4				30		REC		15mA	B4	RR
1807	892 300 000		4				30		REC		15mA	B4	RR
1810	003 200 000	D ₁	4				30		REC		15mA	B4	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
1815	892 300 000		4				60		REC		20mA	B4	RR
1817	892 300 000		4				120		REC		30mA	B4	RR
1821	892 300 000		4				30		REC		15mA	B4	RR
1823	892 300 000		4				30		REC		15mA	B4	RR
1831	892 300 000		4				30		REC		12mA	B4	RR
1832	082 300 000		4				120		REC		30mA	B4	R
1851	026 510 310	G ₁	6	2	300	150	10	9	100	100	8	A08	P
1852	021 415 360		6	2	300	150	10	9	100	100	8	A08	P
1853	021 415 360		6	3	300	200	12.5	5	100	150	5	A08	P
1861	892 300 000		4				60		REC		20mA	B4	RR
1867	389 200 000		4				60		REC		20mA	UX4	RR
1875	023 000 000	D ₁	4				5		D			8SC	R
1876	123 000 080		4				5		D			8SC	R
1877	002 300 000	D ₁	4				3		D			B4	R
1882	023 080 090		5				60		REC		20mA	8SC	RR
1883	023 080 090		5				60		REC		20mA	8SC	RR
2051	026 041 310		6		250		75	2.5kΩ	No Data Available			A08	Thyratron
2101	264 530 000		2	4.5	150	150	8	1.7	100	100	1.7	UX5	P
2102	268 953 000		2	1	100		2.5	1.3	100		1.3	UX6	DDT
2103	274 546 300		2	7.5	150	150	4	1.5	100	100	1.6	UX7	PP
2151	265 413 000		14	31	250	250	47	2.7	100	PenLF	2.4	UX6	P
2318	892 300 000		4				30		REC		15mA	B4	RR
2506	892 300 000		4				15		REC		10mA	B4	RR
3006	802 300 000		4						D			B4	D
3074A	204 140 300	A ₁ A ₂	6		300		50	3.0	No Data Available			UX7	TT
3075A	002 300 000	D ₁	2						DI			B4	D
3329A	265 113 000	G ₁	7.5		175	125	31	2.9	100	100		UX6	P
3481	026 510 310	G ₁	6	13.5	150	150	5.5	1.8	100	100	1.8	A08	P
3720	364 200 000		5	1.5	175		0.2	0.2	150		0.2	UX4	T
3871	264 300 000		30	19	100	100	52	3.8	100	90	3.8	UX6	P
3872	364 200 000		2	9	150		3		100			UX4	T
3873	365 200 000	G ₁	2	3	150	75	1.5	0.64	100	75	0.6	UX4	P
3921	264 300 000		2.5	50	250		34	2.17	100		2.1	UX4	T
3924	265 130 000	G ₁	2.5	3	175	90	4	1	100	90	1	UX5	P
4019A	264 300 000		4		200		9.7	1.3	100		1.2	UX4	T
4019B	642 300 000		4	4	100		7.5	1.27	100		1.2	B4	T
4020A	264 300 000		2	2	150		1.2	0.6	100		0.6	UX4	T
4020B	264 300 000		2	2	150		1.2	0.6	100		0.6	UX4	T
4021A	264 300 000		4	10	150		32.5	3	100		0.6	UX4	T
4021B	642 300 000		4	8	125		23	3	100		3	B4	T
4022AR	264 300 000		4	6	200		16.2	2.2	100		2.0	UX4	T
4033	264 130 000		6	20	400		50	9	100		8	UX5	T
4033A	642 310 000		6	20	400		50	9	100		8	B5	T
4033L	642 310 000		6	20	400		60	10	100		8	B5	T
4037A	802 300 000		4				120		REC		30mA	B4	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4061A	205 411 300	A	6	10	400	200	50	2-5	100	150	2-5	B7	P
4074A	204 140 300	A ₁ A ₂	6	13	300		15	3	100		3	UX7	TT
4077A	003 200 000	D ₁	5				120		REC		30mA	B4	R
4274A	289 300 000		5				120		REC		30mA	UX4	RR
4300A	364 200 000		5	90	400		50		No Data Available			UX4	T
4310A	265 113 000	G ₁	10	5-5	250	150	5-2	2	100	100	2	UX6	P
4328A	265 113 000	G ₁	7-5	5-5	250	175		2	100	150	2	UX6	P
4328D	026 510 310	G ₁	7-5	5-5	250	150	5-2	2	100	100	2	A08	P
4608	642 310 000		4	6	150		11	2-5	100		2-5	B5	T
4610	542 310 000	A	4	1-3	200	100	1-5	0-9	100	100	0-9	B5	P
4613	642 300 000		4	22	250		48	3-5	No Data Available			B4	T
4614	642 310 000		4	16	200		12	1-3	No Data Available			B5	T
4618	542 310 000	A	4	2	200	100	3	2-2	100	100	2-2	B5	P
4619	892 300 000		4				30		REC		15mA	B4	RR
4631	264 300 000		2	1-5	150		0-7		150			UX4	T
4636	542 310 000		4	2	200	100	3	2-3	100	100		B5	P
4650	642 350 000		4	63	300	300	30		No Data Available			B5	P
4652	892 300 000		4				60		REC		20mA	B4	RR
4654	411 230 050	A	6	14	250	275	72-0	8-5	No Data Available			8SC	P
4654K	023 114 500	A ₁	6	12-6	250	275	72	8-5	125	125		8SC	P
4655	462 300 000		4-5				60		REC		15mA	B4	RR
4657	642 310 000		4	1-5	200		1	2-2	200		2-2	B5	T
4670	432 564 570		2	8-5	90	90	1		80	75		8SC	PP
4673	642 310 000	G ₁	4	2-5	250	200	8	5	100	PenLF	5	B5	P
4673	023 110 560	G ₁	4	4	250	200	8	5	100	150	5	8SC	P
4679	026 447 300		6	2-5	250		8	5	100		4-6	A08	P
4682	023 100 560	G ₁	4		375	250	24		100	PenLF		8SC	P
4683	023 004 060		4		350		43		100			8SC	T
4684	023 104 560		4		375	250	24		100	PenLF		8SC	P
4688	023 104 560		4		375	275	48		100	PenLF		8SC	P
4689	023 104 560		6		375	275	48		100	PenLF		8SC	P
4694	023 104 560		6	7-5	375	250	24	8	100	PenLF		8SC	P
4699	023 104 560		6	12-5	300	300	55	13	100	PenLF	9	8SC	P
5516	235 242 300	A	3	14	400	250	75	4	100	PenLF	4	A08	P
5556	264 300 000		4-5	30	350		9	0-98	No Data Available			UX4	T
5590	412 365 100		6	4-5	90	90	3-9	2	80	90	2	B7G	P
5591	412 365 100		6	1-9	175	125	7-7	5-0	125	100	5-0	B7G	P
5603	021 415 360		6	12-5	150	150	50	5-4	100	100	5-4	A08	P
5608	412 365 100		6	12	125	125	7-5	5	100	90	5-0	B7G	P
5610	612 364 000		6	1-5	90		17	4	80		4-0	B7G	T
5618	265 134 200		3	8	275	75	19	3-5	100	60	3-5	B7G	P
5635	442 *63 710		6	0-5	100		4-8		100		3-8	B8B	T
5636	412 163 510		6	3	100	100	4	1-9	100	100	1-9	B8D	P
5637	402 013 060		6		100		1-4	2-7	100		2-7	B8B	T
5639	412 163 510		6	2-6	150	100	21	9	100	100	9	B8D	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5640	412 163 510		6	6	100	100	31	5	100	100	5	B8B	P
5641	082 813 080		6				30		REC		15mA	B8D	R
5647	381 280 000		6				5.0		D			B5A	D
5654	412 365 100		6	2	125	125	7.5	5	100	100	5	B7G	P
5656	544 231 761		6	2	150	125	15	5.8	100	100		B9A	PP
5659	026 540 310		12.5	12.5	250	250	32		100	PenLF		A08	P
5660	026 895 310	G ₁	12.5	3	250	125	10	1.325	100	100	1.3	A08	DDP
5661	021 415 360		12.5	0.4	250	100	9.2	2	100	100	2	A08	P
5670	214 607 413		6	2	150		8.2	5.5	125		5.5	B9A	TT
5672	653 420 000		1.25	6.5	60	60	3.1	0.65	No Data Available			B5A	P
5676	695 300 000		1.25	5	125		4	1.6	125		1.6	B5A	T
5678	652 430 000		1.25	0	60	60	1.8	1	No Data Available			B5A	P
5679	218 309 120		6				5		D			B8B	RR
5686	141 235 615		6	12.5	250	250	27	3.1	100	100		B9A	P
5687	641 221 437		6	12.5	250		12.5	4.1	100		7	B9A	TT
5690	238 192 310		6				120		REC		30mA	A08	RR
5691	471 461 230		6	2	250		2.3	1.6	150		1.6	A08	TT
5692	471 461 230		6	9	250		6.5	2.2	100		2.2	A08	TT
5693	021 415 360		6	3	250	100	3	1.65	100	100	1.6	A08	P
5694	126 447 310		6	6	300		7	3.2	No Data Available			A08	TT
5718	402 013 060		6	2.0	100		13.0	5.5	100		5.5	B8D	T
5719	402 013 060		6	1.3	150		1.8	2.3	100		1.6	B8B	T
5722	802 208 300		3						D			B7G	D
5725	412 365 100		6	2	125	125	5.2	3.2	100	100	3.5	B7G	P
5726	192 310 800		6						D			B7G	RR
5732	026 510 310	G ₁	6	3	125	100	8	2.2	100	100	2	A08	D
5749	412 365 100		6	1	250	100	11	4.4	100	100	4.3	B7G	P
5750	412 366 400		6	2	100		11	7.0	100		6	B7G	H
5751	741 226 413		6	3.0	250		1.0	1.2	100		1.2	B9A	TT
5755	471 461 230		6	2	250		2.3	1.6	200		1.6	A08	TT
5763	601 235 144		6	7.5	250	250	45	7	100	PenLF	7	B9A	P
5797	411 235 600		26.5	1	30	30	0.5	1.0	No Data Available			B8D	P
5812	413 365 200		3	23	250	250	40	4.1	100	PenLF	4.1	B7G	P
5814	741 226 413		6	8.5	250		10.5	2.2	100		3.0	B9A	TT
5824	026 540 310		25	22	125	125	61	5	125	125	5	A08	P
5825	200 300 000	D ₁	1.5						D			UX4	D
5838	028 090 310		12				30		REC		15mA	B8A	RR
5839	028 090 310		26				30		REC		15mA	A08	RR
5840	412 163 510		6	1.4	100	100	7.0	5.0	100	100	5.0	B8D	P
5842	602 441 443		6	1.5	150		26	24.0	100		2.4	B9A	T
5844	672 344 100		6	2.3	100		4.8	3.4	100		3.4	B7G	TT
5845	802 290 300		6						D			B7G	DD
5847	402 106 053		6	2	150	150	13	12.5	150	150	12	B9A	P
5851	206 005 340		2.5	7.5	125	125	5.5	1.6	125	125	1.6	B8B	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5852	028 090 310		6				30		REC		15mA	A08	RR
5873	264 114 730		6	3	150		9	2.9	100		2.3	B8B	TT
5879	401 230 561		6	3	250	100	1.8	1	100	100	1	B9A	P
5881	026 540 310		6	12.5	300	200	48	5.3	100	150	5	A08	P
5894	245 134 200	A ₁ A ₂	6		400	250	30	3.4	No Data Available			B7A	PP
5896	812 093 100		6				15		REC		15mA	B8B	RR
5897	402 013 060		6	2.3	150		14	6.5	100		5.8	B8A	T
5898	402 013 060		6	2	150		1.8	2.3	100		1.7	B8A	T
5899	412 163 510		6	2.0	100	100	13.0	5.5	100	100	5.0	B8D	P
5900	412 163 510		6		100	100	7.2	4.5	100	100	4.5	B8A	P
5901	412 163 510		6	1.5	100	100	7.5	5.0	100	100	2.4	B8A	P
5902	412 163 510		6	6.5	100	100	30	4.2	No Data Available			B8A	P
5903	812 093 100		26				5		D			B8B	RR
5905	412 163 510		26	0	20	20	2.3	2.8	No Data Available			B8A	P
5906	412 163 510		26	1.5	100	100	7.5	5	100	100	5	A08	P
5907	412 164 510		26	0	20	20	2.7	3.0	No Data Available			B8A	P
5908	412 163 510		26	0	20	20	2.3	1.7	No Data Available			B8A	P
5910	265 *24 300	1.4	0	0	90	90	1.6	0.9	100	90	0.9	B7G	P
5915	412 365 100		6	0	75	75	6.3	2	80	75	2	B7G	H
5916	412 163 510		26		100	100	4.4	1.28	100	100	1.2	B8A	P
5920	762 344 100		6	2.1	100		8.5	6	100		6	B7G	TT
5930	264 300 000		2.5	45	250		60	5.25	No Data Available			UX4	T
5931	020 809 030		5				120		REC		30mA	A08	RR
5932	026 540 310		6	14	250	250	72	6	100	PenLF	5.2	A08	P
5933	254 130 000	A	6	14	300	250	83	6.5	100	150	6	UX5	P
5947	222 833 380		4.4						D			A08	D
5961	126 541 340		6		250	100			100	100		A08	H
5963	741 226 413		6	0	75		8	2.8	80		2.8	B9A	TT
5964	762 344 100		6	1	100		9.5	6	100		6	B7G	TT
5965	741 226 413		6	1.8	150		8.2	6.5	150		6.0	B9A	TT
5967	624 334 260		1.25		40		3	2	No Data Available			B8B	TT
5968	240 670 430		1.25	0	40		0.7	1.3	No Data Available			B8B	TT
5969	245 675 430		1.25	3	125	40	6	1.7	No Data Available			B8B	PP
5977	402 013 060		6	2.7	100		10	4.5	100		4.5	B8B	T
5987	462 613 060		6	18	100		9	1.85	100		1.85	B8B	T
5992	026 540 310		6	12.5	250	250	45	4.1	100	PenLF	4	A08	P
5993	802 010 309		6				30		REC		15mA	B9A	RR
5998	461 471 230		6		100		100	15.5	No Data Available			A08	TT
6004	020 000 030	D ₁ D ₂	2.5				60		REC		20mA	A08	RR
6005	412 365 400		6	12.5	250	250	45	4	100	150	4	B7G	P
6006	021 415 360		6	14	250	125	11	4.7	100	100		A08	P
6007	653 420 000		1.25	0.2	20	20	0.47	0.42	No Data Available			B5A	P
6008	653 420 000		0.625	1.15	20	20	0.5	0.1	No Data Available			B5A	P
6021	642 113 470		6	1.0	100		6.5	5.4	100		5	B8D	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6026	001 230 460		6	2-6	125		12	5-9	100		5-9	B8B	T
6028	412 365 100		20	1-8	125	125	7-5	5-0	100		5-0	B7G	P
§6030	672 344 100		6	{ 3 0-85	150 100		5 8-5	4-5 5-8	100 100	125	5-8 5-8	B7G	TT
6042	461 471 230		25	8	250		9	2-6	100		2-6	A08	TT
6045	672 344 100		6	0-5	100		9	6-4	100		6-4	B7G	TT
6046	026 540 310		25	8-2	200	125	46	8	100	125	8	A08	P
6052	812 093 100		6				30		REC			B8B	RP
6053	812 093 100		26				5		D			B8B	DD
6057	741 226 413		6	2	250		1-2	1-6	150		1-6	B9A	TT
6058	192 310 800		6						D			B7G	RR
6059	041 230 651		6	3	250	100	2	1-225	100	100	1-2	B9A	P
6060	741 226 413		6	2	250		10	5-5	200		5	B9A	TT
6061	*41 230 651		6	13	300	225	34	3-75	100	150	3-7	B9A	P
6062	601 235 114		6	7-5	250	250	45	7	100	150	7	B9A	P
6063	802 309 100		6				30		REC		15mA	B7G	RR
†6064	412 361 500		6	{ 2 1-5	250 200	250 150	10 4-0	7-5 6-4	100 100	150 150	5 5	B7G	P
6065	412 361 500		6	2-5	250	250	8	2-5	100	100	2-5	B7G	P
6066	412 389 600		6	3	250		1	1-2	150		1-2	B7G	DDT
6067	741 226 413		6	8-5	250		10-5	2-2	100		2-2	B9A	TT
6072	741 226 413		6	4	250		3	1-75	100		1-7	B9A	TT
△6080	471 461 230		6	30	100				No Data Available			A08	TT
6082	471 461 230		26-5	30	100		100	7	No Data Available			A08	TT
6084	501 236 014		6	2-0	250	125	10	9-0	150	100		B9A	P
6085	641 227 413		6	5-5	250		6	2-7	100		2	B9A	TT
6086	541 236 **1		18	1-8	200	100	8-3	8-2	100	100	8	B9A	P
6087	020 809 030		6				60		REC		20mA	A08	RR
6094	452 634 516		6	12-5	250	250	45	6	100	PenLF	6	B9A	P
6095	412 365 400			12-5	250	250	45	4-1	100	PenLF	4	B7G	P
6096	412 365 100		6	2	125	125	7-5	5	125	125	5	B7G	P
6097	192 310 800		6						D			B7G	RR
6098	106 052 430		6	22-5	250	250	77	5-4	100	100		A08	P
6099	672 344 100		6	{ 3 0-85	150 100		5 8-5	4-5 5-3	100 100		5-8 5-8	B7G	TT
6100	602 364 100		6	8-5	250		10-5	2-2	100		3-0	B7G	T
6101	762 344 100		6	2	150		9	5-5	100		6	B7G	TT
6106	020 809 030		5				60		REC		20mA	A08	RR
6110	812 093 100		6				5		D			B8B	RR
6111	642 113 470		6	1-9	100		8-5	5	100		5	B8B	TT
6112	642 113 470		6	1-4	150		1-75	2-5	100		0-8	A08	TT
6113	641 471 230		6	3	250		3	1-7	100		1-6	A08	TT
6118	026 890 310		6	3	250		1-0	1-2	150		1-3	A08	DDT

† See note on Page 5 regarding Back Emission.

§ See note on Page 5 regarding Grid Bias.

▲ See note on Page 6 regarding Low Anode Impedance Triodes.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6125	8*2 384 100		6	8.5	250		10.5	2.2	150		2.2	B7G	T
6132	*41 230 651		6	4.5	250	250	40	11	100	150	9	B9A	P
6134	021 415 360		6	2	300	150	10	9	100	150		A08	P
6135	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
6136	412 365 100		6	1.0	250	150	10.6	5.2	100	150	5	B7G	P
6137	021 415 360		6	3	250	100	9.2	2	100	100	2	A08	P
6145	265 104 130		5		150	100	34	10	100	100		B7G	P
6146	125 141 310	A	6	28	200	200	100	7	No Data Available			A08	P
6147	206 035 240		1.25	7.5	125	125	5.5	1.6	100	125	1.5	B8B	P
6153T	023 164 570	G ₁	6	$\begin{Bmatrix} 2 \\ 2 \end{Bmatrix}$	100 250		16 12	5 3.5	100 100	60 100	5 3	} 8SC TH	
6156	412 360 500		6	13.5	250	250	16	2.6	100	150	2.6	B7G	P
6157	**1 23* ***	D ₁	6				120		REC		30mA	B9A	R
6158	741 226 413		6	4.6	250		6	2.3	100		2.3	B9A	TT
6159	125 141 310	A	26	30	200	200	100	7	No Data Available			A08	P
6180	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
6186	412 365 100		6	1.4	250	150	7	5	100	100	4	B7G	P
6187	412 365 100		6	2	125	125	5.2	3.2	100	125	3.0	B7G	P
6188	461 471 230		6	2	250		2.3	1.6	150		1.4	A08	TT
6189	641 227 413		6	8.5	250		10.5	2.2	100		3	B9A	TT
6197	145 236 154		6	3	250	150	30	11	100	150	10	B9A	P
6201	741 226 413		6	2	250		10	5.5	100		5	B9A	TT
6202	802 309 100		6				60		REC		20mA	B7G	RR
6203	800 230 109		6						REC			B9A	RR
6205	412 163 510		6	4	100	100	7.5	5	100	100	5	B8D	P
6211	741 226 413		6	1.2	100		4.6	3.6	100		3.6	B9A	TT
6215	020 000 300	D ₁							D			A08	D
6216	641 236 510		6	6	200	100	47	8.8	100	100		B9A	P
6227	041 230 651		6	5.2	200	200	30	9	100	100		B9A	P
6247	442 613 000	A ₁	6	3	200		4	3	100		2.6	B7G	T
6265	412 365 100		6	1	250	150	9	4	100	125		B7G	P
6267	501 236 014		6	1.0	250	100	3.0	1.85	100	100	1.8	B9A	P
6287	156 236 546		6	12.5	250	250	48	4.1	100	100		B9A	P
6293	125 141 300	A ₁	6		200	200	100	7.3	No Data Available			A08	P
6302	265 113 000	G ₁	6	2.2	300	150	11	9	No Data Available			UX6	P
6305	112 311 100	D ₁	4				5		REC		5mA	B7G	R
6325	108 090 230		6				60		REC		20mA	A08	RR
6327	121 040 350		6	22.5	250	250	120	8	100	100		A08	P
6336	471 461 230		6	41.5	150		100	11	No Data Available			A08	TT
6350	614 227 140		6	2	250		12	5.5	100		5	B9A	TT
6374	**1 23* **8	D ₁	6				120		REC		30mA	B9A	R
6375	400 230 060		1.25	4.5	150		12.0	3.4	150		3.4	B8D	T
6385	214 607 413		6	2.1	150		82	5.5	125		5.5	B9A	TT
6386	214 607 413		6	2	100		9.6	4	100		4	B9A	TT
6394	461 471 230		26.5	45	150		100	11	No Data Available			A08	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6397	306 025 240		1-25	7-5	125	125	7	1-9	100	100		B8B	P
6417	601 235 144		12-5	7-5	250	250	45	7	100	150	7	B9A	P
6443	**1 23* ***	D ₁	6				120		REC		36mA	B9A	R
6463	614 227 143		6	2	250		14-5	5-2	100			B9A	TT
6485	412 365 100		6	1-6	300	150	10	9	100	100		B7G	P
6488	412 653 160		6	2-0	100	100	7-5	5-0	100	100	5-0	B8D	P
6489	261 360 000		6		100		8		100			SM5	T
6516	412 360 500		6	13-5	250	250	16-0	2-6	100	150	2-6	B7G	P
6520	461 471 230		6	60	150		50	7	No Data Available			A08	TT
6542	542 134 500	A ₁ A ₂	6	2	200	200	50	4-5	100	100		B7A	PP
6550	026 540 310		6	16-5	400	225	87	9	No Data Available			A08	P
6660	412 365 100		6	1-1	250	100	11	4-4	100	100	4-3	B7G	P
6661	412 365 100		6	1-0	250	150	7-4	4-6	100	100		B7G	P
6662	412 365 100		6	1-0	250	100	9-2	3-6	100	100	3-6	B7G	P
6663	182 310 900		6						D			B7G	RR
6669	412 365 400		6	12-5	250	250	47	4-1	100	PenLF	4	A08	P
6677	145 236 154		6	3	250	150	30	11	100	100		B9A	P
6679	641 227 413		6	2	250		10	5-5	200		5	B9A	TT
6680	641 227 413		6	8-5	250		10-5	2-2	100		2-2	B9A	TT
6681	641 227 413		6	2	250		1-2	1-6	150		1-6	B9A	TT
6686	041 230 651		6	2-5	200	200	20	11	100	100		B9A	P
6687	412 365 100		6	5	125	75	0-5	0-6	125	75	0-6	B7G	H
6688	141 23* 615		6	1	200	150	13-1	16-5	No Data Available			B9A	P
6689	541 236 **1		6	1-7	200	125	10	9	100	100		B9A	P
6697	641 227 413		6	8-5	250		10	2-0	150			B9A	TT
6760	641 236 510		18	7-5	125	125	70	12	No Data Available			B9A	P
6761	641 236 510		6	7-5	125	125	70	13	No Data Available			B9A	P
6829	641 227 413		6	2-2	150		10-7	8-1	150		8-1	B9A	TT
6850	542 134 500	A ₁ A ₂	12		200	200	50	4-5	100	100		B7A	PP
6870	141 223 651		6	3-5	250	250	25	8-5	100	100	8	B9A	P
6883	125 141 130	A ₁	12	30	200	200	100	7	No Data Available			B9A	P
6893	125 141 130	A ₁	12	30	200	200	100	7	No Data Available			B9A	P
§6927	672 344 100		6	3	150		5	4-5	100		5	B7G	TT
				0-85	100		8-5	5-8	100		5		
6928	412 365 400		6	12-5	250	250	45	4-1	100	PenLF	4	B7G	P
6955	641 227 413		6	8-5	250		11-5	2-3	100			B9A	TT
7000	026 510 310	G ₁	6	3	250	100	2	1-225	100	100	1-2	A08	P
7184	026 540 360		6	15	250	250	70		100	PenLF		A08	P
7193	020 000 310	A ₁ G ₁	6	10-5	300		11	3	100		3	A08	T
7700	265 113 000	G ₁	6	3	250	100	2	1-2	100	100		UX6	P
7752	412 365 100		6	2	125	125	5-5	3-5	100	100	3-5	B7G	P
7755	412 365 100		6		30	30	3	2-75	No Data Available			B7G	P
7756	106 052 430		6	36	300	300	58	4-3	100	PenLF	4-3	A08	P

§ See note on Page 5 regarding Grid Bias.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
8013A	200 300 000	D ₁	2.5				15		REC		10mA	B4	R
8016	020 000 030	D ₁	1.25						D			A08	D
8020	200 300 000	D ₁	5				120		REC		30mA	UX4	R
9001	412 365 100		6	3	250	100	2	1.4	100	100	1.4	B7G	P
9002	612 364 100		6	7	250		6.3	2.2	100		2.22	B7G	T
9003	412 365 100		6	3	250	100	6.7	1.8	100	100	1.8	B7G	P
9006	812 380 100		6				5		D			B7G	R
9072	020 000 310	A ₁ G ₁	6		300		15	2.5	No Data Available			A08	T
18013	061 231 500	G ₁	4		200	200	8	5	100	100		B7	P
18014	005 231 600	G ₁	4		200	200	35	8	100	100		B7	P
18015	061 231 500		21		125	125	8	8.3	125	125	8.3	B7	P
18016	005 231 600		21		125	125	48	9	125	125	9	B7	P
18040	265 104 130		18	3.4	200	200	15	10	100	150	10	B8B	P
18042	541 236 ***I		18	1.8	200	100	8.3	8.2	100	100	8	B9A	P
18043	541 236 ***I		6	1.8	200	200	8.2	8.2	100	100	8	B9A	P
18045	041 230 651		18	3	200	200	20	11	100	150	10	B9A	P
18046	041 230 651		18	3	200	100	20	11	100	150	10	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
A11A	892 300 000		4				60		REC		20mA	B4	RR
A11B	892 300 000		4				60		REC		20mA	B4	RR
A11C	892 300 000		4				60		REC		20mA	B4	RR
A11D	892 200 000		4				60		REC		20mA	B4	RR
A20B	892 310 000		4						D			B5	DD
A23A	809 231 600	G ₁	4	7	250		4.0	2.0	100		2.9	B7	DDT
A26	264 300 000		15	1.5	90		4.5	1.16	80		1.16	UX4	T
A27D	819 236 500	G ₁	4	6	250	250	36	9.5	100	PenLF	9.5	B7	DDP
A28	264 300 000		15	1.5	90		7.5	1.16	80		1.16	UX4	T
A30	264 300 000		15	27	175		22	1.08	100		1.08	UX4	T
A30B	642 310 000		4	2	250		10	5.5	200		5.5	B5	T
A30D	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
A32	264 300 000		15	3	150		1.5	0.94	150		0.94	UX4	T
A36A	645 231 700	G ₁	4	2	150		6	1.2	150	60	1.2	B7	TH
				2	200	100	3.5		200	75			
A46B	645 231 700	G ₁	4	2	100		22	6	100	60	6	B7	TH
				2	250	150	3.5		100	PenLF			
A36C	645 231 700	G ₁	4	3	100	0	9	3.8	100	60	5.0	B7	TH
				2.5	250	100	3.25	2.5	100	100	3.0		
A40	264 300 000		15	40.5	175		21	1.5	100		1.5	UX4	T
A40M	254 130 000	A	4	1.5	200	100	3	2	200	100	3	UX5	P
A40M	542 310 000	A	4	1.5	200	100	3	2	200	100	3	B5	P
A48	264 300 000		15	4.5	90		4.5	1.18	80		1.18	UX4	T
A50A	542 310 000	A	4	2	200	100	3	2.3	100	200	2.3	B5	P
A50A	040 231 500	A	4	2	200	100	3	2.3	100	100	2.3	B7	P
A50B	061 231 500	G ₁	4	1.5	250	250	6	3.5	200	200	3.5	B7	P
A50M	041 231 500	A	4	2	200	125	4.5	2.3	100	100	2.3	B7	P
A50M	542 310 000	A	4	2	200	125	4.5	2.3	100	100	2.3	B5	P
A50N	542 310 000	A	4	2	225	100	4.25	2.5	200	100	2.5	B5	P
A50N	041 231 500	A	4	2	225	100	4.25	2.5	200	100	2.5	B7	P
A50P	060 231 500	G ₁	4	3	250	250	11.5	2	100	PenLF	2	B7	P
A70B	642 310 000	S	4	25	250	250	36	2.6	100	PenLF	B5	B5	P
A70B	045 231 600		4	25	250	250	36	2.6	100	PenLF	2.6	B7	P
A70C	045 231 600		4	3	250	250	36	9	100	PenLF	9	B7	P
A70D	045 231 600		4	3	250	250	36	9	100	PenLF	9	B7	P
A70D	642 350 000		4	5.8	250	250	36	9.5	100	150	8	B5	P
A70E	045 231 600		4	14	250	275	72	8.5	100	PenLF	8.5	B7	P
A70P	045 231 600		4	14.5	250	250	70		100	PenLF		B	P
A80A	123 174 560	G ₁	4	1.8	90		2		100	90	1.3	8SC	O
				8.5	250	75	1.6		200		2.5		
A80A	645 231 700	G ₁	4	1.8	90	75	2		100	90	1.3	B7	O
				8.5	250	75	1.5		100	90	1.5		
A104	642 300 000		1.1	10	100		5	0.35	100		0.35	B4	T
A106	264 300 000		1.4	9	100		2	0.4	100		0.4	UX4	T
A106	642 300 000		1.4	9	100		2	0.4	100		0.4	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
A109	264 300 000		1.4	9	150		2	0.45	100		0.4	UX4	T
A110	264 300 000		1.4	4.5	125		4	0.4	125		0.4	UX4	T
A110	642 300 000		1.4	4.5	125		3	0.4	125		0.4	B4	T
A125	642 300 000		1.25	3	150		0.4	0.45	100		0.4	B4	T
A203	642 300 000		2	30	150		12	1.5	100		1.5	B4	T
A205	642 300 000		2	18	150		7	1.2	100		1.2	B4	T
A206	642 300 000		2	8.5	150		3.8		100		1	B4	T
A209	642 300 000		2	9	150		4	1.0	100		1.0	B4	T
A210	642 300 000		2	9	125		3	0.9	100		0.9	B4	T
A211	642 300 000		2	2	150		2	1.2	100		1.2	B4	T
A225	642 300 000		2	3	150		1	1.0	100		1.0	B4	T
A235	042 300 000	A	2	0	150		1.5	0.4	150		0.4	B4	T
A241	642 300 000	S	2	2	20	20	1.2	1.0	No Data Available			B4	P
A242	265 300 000	G ₁	2	3	125	75	1.7	0.6	100	75	0.6	UX4	P
A303	264 300 000		3	27	150		3	0.6	100			UX4	T
A306	264 300 000		3	15	150		1.5	0.4	100			UX4	T
A404	642 300 000		4	10	100		4	0.45	100		0.45	B4	T
A406	642 300 000		4	9	150		6	0.45	100		0.45	B4	T
A408	642 300 000		4	4	150		4	1.5	100		1.5	B4	T
A409	642 300 000		4	9	150		3.5	0.9	100		1.2	B4	T
A410	642 300 000		4	3	150		3.5	0.5	100		1.2	B4	T
A410	264 300 000		4	3	150		3.5	0.5	100		1.2	UX4	T
A410N	642 300 000		4	3	150		3.5	0.5	100		0.5	B4	T
A411	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
A414K	642 300 000		4	4.5	150		4	2	100		2	B4	T
A415	642 300 000		4	4	150		4	1.5	100		2	B4	T
A416	642 300 000		4	4.5	150		4	2	100		2	B4	T
A420	642 300 000		4	4	150		4	1.5	100		1.5	B4	T
A425	642 300 000		4	2.5	200		0.25	1.2	100		1.2	B4	T
A430	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
A430	042 300 000	A	4	0	150		1.5	0.5	150		0.5	B4	T
A430N	642 310 000		4	4.5	250		6.5	3.5	100		3	B5	T
A435	642 300 000		4	1	150		2.1	0.5	150		0.5	B4	T
A440N	642 310 000		4	1.6	200		0.2	2.2	150		2.2	B5	T
A442	542 300 000	A	4	1	200	100	4	0.7	200	100	0.8	B4	P
A442	254 300 000	A	4	1	200	100	1.0	0.4	200	100	0.8	UX4	P
A557	602 310 000	G ₁	4	8	150		28	2	100		2	B5	T
A577	602 310 000	G ₁	4	20	250		40	2	100		2.0	B5	T
A600	642 300 000		6	9	150		4	1.5	100		1.5	UX4	T
A609	642 300 000		6	9	150		4	1.5	100		1.5	B4	T
A615	642 300 000		6	4.5	150		4	2.4	100		2.4	B4	T
A630	642 300 000		6	1.5	150		0.7	1.5	150		1.5	B4	T
A635	642 300 000		6	0	150		1.2	1.5	150		1.5	B4	T
A642	542 300 000	A	6	1	200	100		0.7	200	100	0.7	B4	P
A802	642 310 000		4	3	100		2.5	2.5	100		2.5	B5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE	
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V			
A819	060 231 500	G ₁	4		250	250	8	7·5	100	100		B7	P	
A863	026 500 310	G ₁	6	3	250	100	2	1·23	100	100	1·2	A08	P	
A901	045 231 600		5		100	100	50	9	No Data Available			B7	P	
A1685	026 510 310	G ₁	6·3	3	125	100	8	3·2	100	100	3·2	A08	P	
A1685M	026 510 310	G ₁	6	3	125	100	8	3·2	100	100	3·2	A08	P	
△ A1714	412 3** 600		6	2·25	150				100		8	B7G	T	
A1820	265 004 130		6		250	250	40	10·5	100	PenLF	9	B8B	P	
△ A1834	471 461 230		6	40	100				No Data Available			A08	TT	
A2087	8*2 380 100		4·4				5		D			B7G	R	
A2118	642 350 000		20	3	200		6	2·3	100		2	B4	T	
A2134	412 36* 500		6	7·8	150	150	55	9·5	100	100	9	B7G	P	
A2272	21* *1* *13	A ₁	6·3						D			B9G	R	
A4090	642 310 000		4	3·5	250		6	2·4	150		2·4	B5	T	
A4110	642 310 000		4	3·5	200		6	2·4	100		2·2	B5	T	
AAB1	023 110 980		4						D			8SC	DDD	
AA61	274 164 130		6	5·2	250		6	2·7	100		2·7	B8A	TT	
AB1	902 310 000	D ₁	4						D			B5	DD	
ABC1	023 198 060	G ₁	4	7	250		4	2	100		2	8SC	DDT	
ABC91	412 389 600		6	2	250		1·2	1·6	100		1·4	B7G	DDT	
AB11	023 198 560	G ₁	4	6	250	250	36	9	100	PenLF	9·0	8SC	DDP	
AC/042	642 300 000		2	38	300		50	5	100		5	B4	T	
AC/044	642 300 000		4	38	300		50	5	100		5	B4	T	
AC054	642 300 000		4	22	250		48	3·5	No Data Available			B4	T	
AC/064	642 300 000		4	21	200		20	3	100		3	B4	T	
AC084	642 300 000		4	22	300		17	1·1	100		1·1	B4	T	
AC084N	642 300 000		4	0	100		21	2·5	100		2·5	B4	T	
AC2	023 100 060	G ₁	4	5·5	250		6	2·5	100		2·5	8SC	T	
AC2DD	869 231 500	G ₁	4	5·	250	250	32		100	PenLF		B7	DDP	
AC2/HL	642 310 000		4	1·2	250		2·5	6·5	100		5	B5	T	
AC2/Pen	045 231 600		4	5·3	250	250	32	8·5	100	PenLF	8	B7	P	
AC2/PenDD	869 231 500	G ₁	4	5·3	250	250	32	8·5	100	PenLF	8	B7	DDP	
AC3Pen	045 231 600		4	3	250	250	36	9	100	PenLF	9	B7	P	
AC4/Pen	045 231 600		4(5)	7	225	225	56	11	100	100	10	B7	P	
AC5/Pen	045 231 600		4	8·5	250	250	40	9·4	100	PenLF	9·4	B7	P	
AC5/PenDD	869 231 500	G ₁	4(5)	8·5	250	250	40	9·4	100	PenLF	9·4	B7	DDP	
AC6/Pen	045 231 000	A	4(5·5)	6·9	300	225	63	9·5	100	100	8·5	B7	P	
AC104	642 310 000		4	10	150		8·5	3·5	100		3·5	B5	T	
AC701	103 060 020	G ₁	4	1·6	40		0·5	0·7	No Data Available			B8D	T	
ACD	802 310 000		4						D			B5	D	
ACDD														
(HIVAC)	892 310 000		4						D			B5	DD	
AC/DDT	809 231 600	G ₁	4	4	200		5	2·3	100		2·3	B7	DDT	
AC/DX	642 310 000		4	3	200		5	3·5	100		3·5	B5	T	
AC/G	642 310 000		4	7·5	200		8	2·7	100		2·7	B5	T	

△ See note on Page 6 regarding Low Impedance Triodes.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ACHF	642 310 000		4	3	200		3	2.5	100		2.5	B5	T
ACHL	642 310 000		4	2.5	200		7	2.0	100		3.5	B5	T
AC/HLDD	809 231 600	G ₁	4	3	200		4.9	2.6	100		2.6	B7	DDT
ACHLDDD	910 231 680	G ₁	4	3	200		4.9	2.6	100		2.7	B9	DDDT
ACHL4	642 310 000		4	5	250		5	3.3	100		3.3	B5	T
ACHL4DD	809 231 600	G ₁	4	3	250		7	2.5	100		2.5	B7	DDT
ACHM4	542 310 000	A	4		250	100	10	2.5	100	100	2.5	B5	P
AC/HP	041 231 500	A	4	1.5	200	100	4.2	3.2	100	100	3.2	B7	P
AC/HP	543 210 000	A	4	1.5	200	100	4.2	3.2	100	100	3.2	B5	P
ACHVP	542 310 000	A	4	2	200	100	3	2.3	100	100	2.3	B5	P
ACHI	174 652 300	G ₁	4	{ 2 2	150 150		5 2.5	2.0	100 80	60 75	2	C7	TH
ACH4	642 310 000		4	4	200	75	3	3.3	100		3.3		T
AC/L	642 310 000		4	13.5	200		17	4.25	100		4.25		T
ACL4	642 310 000		4	15	250		9	4	100		4		T
AC/LP	642 310 000		4	14	200		18	4.25	100		4.25	B5	T
ACME4	642 310 000	S	4	16	250	250	26		100	PenLF		B5	P
ACP	642 300 000		4	21	200		19	3	100		3	B4	T
AC/P	642 310 000		4	13.5	200		17	2.75	100		2.75	B5	T
ACPI	642 310 000		4	28	200		24	2.3	100		2.3	B5	T
ACP/4	042 310 000	A	4	1	100		20	7	100		7	B5	T
ACP/4	642 310 000		4	20	250		20	4	100		4	B5	T
ACPN	642 350 000		4	12	250	200	22		100	PenLF		B5	P
ACPNDH	642 350 000		4	10	250	200	18		100	PenLF		B5	P
AC/PP	642 300 000		4	25	400		50	5	100		5	B4	T
ACPP	045 231 600		4	5.5	250	250	32		No Data Available			B7	P
AC/Pen.	045 231 600		4	15.5	250	250	32	2.7	100	100	2.5	B7	P
AC/Pen.	642 310 000	S	4	12	200	200	24	2.5	100	100	2.5	B5	P
ACPT	642 310 000	S	4	8	250	200	31		100	PenLF		B5	P
ACPX4	642 310 000		4	18	250		30	4	100		4	B5	T
ACPX4a	642 300 000		4	25	250		50	5	100		5	B4	T
ACQ	045 231 600		4	22	400	250	57	6	100	PenLF	6	B7	P
ACQA	045 231 600		6	23	400	250		6	100	PenLF	6	B7	F
AC/SIVM	542 310 000	A	4	1.4	200	75	5.6	1.1	200	75	1.1	B5	P
AC/S2	542 310 000	A	4	1.0	200	60	6	3.4	200	60	3.4	B5	P
ACS2Pen	041 231 500	A	4	1.5	250	100	8	4.6	200	100	5.5	B7	P
AC/SG	542 310 000	A	4	1.5	200	60	4.5	1.9	200	60	1.9	B5	P
AC/SGVM	542 310 000	A	4	2	200	60	5.8	2.0	200	60	2	B5	P
AC/SH	542 310 000	A	4	1.5	200	75	7.4	2.5	200	75	3.5	B5	P
AC/SL	041 230 500	A	4	1	200	75	3.8	2.0	200	75	2.0	B7	P
AC/SL	061 230 500	G ₁	4	1	200	75	3.8	3.3	200	75	3.3	B7	P
ACSP1	041 231 500	A	4	3	200	200	4.9	2.7	100	PenLF	2.7	B7	P
ACSP3	061 231 500	G ₁	4	1.5	250	100	9	7.5	200	100	7.5	B7	P
ACTHI	645 231 700	G ₁	4	{ 2.7 3	75 250		6.0 3	3.0 3.5	100 250	60 100	3.5 3.8	B7	TH

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ACTHIA	271 640 530	G ₁	4	$\begin{Bmatrix} 3 \\ 3 \end{Bmatrix}$	75 250	100	6.0 3	3.0 3.5	80 100	60 100	3 3.5	$\begin{Bmatrix} \text{MO8} \\ \text{B9} \end{Bmatrix}$	TH
ACTP	571 231 640	G ₁	4	$\begin{Bmatrix} 3 \\ 5 \end{Bmatrix}$	150 250	0 200	1.5 5.5	1.4 1.6	100 250	60 200	1.4 3.4	$\begin{Bmatrix} \text{B9} \\ \text{B5} \end{Bmatrix}$	TP
ACVG	542 310 000	A	4	0	200	75	5	3	200	75	3	B5	P
ACVH	542 310 000	A	4	1.5	200	75	9.3	2.7	200	75	3.3	B5	P
AC/VP	041 231 500	A	4	1.5	200	100	5.7	2.5	200	100	3	B7	P
AC/VP	542 310 000	A	4	1.5	200	100	5.7	2.5	200	100	3	B5	P
ACVPB	061 231 500	G ₁	4	1.5	250	150	12	4	250	200	4	B7	P
AC/VPI	041 231 500	A	4	2.8	250	200	7.4	2	100	PenLF	2	B7	P
AC/VP2	061 231 500	G ₁	4	2.8	250	200	7.4	2	100	PenLF	2	B7	P
AC/VP4	041 231 500	A	4		250	100	6	3	100	100	3	B7	P
ACVS	542 310 000	A	4	1.5	200	75	4.4	2.0	200	75	3	B5	P
ACVS4	542 310 000	A	4	2	250	50	6	2	200	60	2	B5	P
AC/Y	045 231 600		4	10	250	250	32	3.5	100	100	3.5	B7	P
AC/Y	642 310 000	S	4	10	250	250	32	3.5	100	100	3.5	B5	P
AC/YC	045 231 600		4	10	250	250	68	7.5	100	PenLF	7.5	B7	P
AC/YY	045 231 600		4	10	250	250	68		100	PenLF		B7	P
AC/Z	642 310 000	S	4	5.5	250	250	32	7.5	100	PenLF	8	B5	P
AC/Z	045 231 600		4	5.5	250	250	32	7.5	100	PenLF	8	B7	P
AC/ZDD	869 231 500	G ₁	4	5.5	250	250	32	8	100	PenLF	8	B7	DDP
AD	281 300 000		6				60		REC		20mA	UX4	R
ADI	023 004 060		4	45	250		60	6	100		6	8SC	T
ADI/350	023 004 060		4	66	350		42		100			8SC	T
ADG	642 310 000		20	10	200		10	3.5	100		3.5	B5	T
ADHF	642 310 000		20	3	200		5	3.5	100		3.5	B5	T
ADHP	041 231 500	A	20		200	100	5	2.8	200	100	2.8	B7	P
ADL	652 310 000		20	13	200		20	3	100		3	B5	T
ADPN	642 350 000		20	15	250	200	22		100	PenLF		B5	P
ADVHP	041 231 500	A	20		200	100	5.5	2.5	200	100	2.5	B7	P
AE	265 413 000		13	13.5	100	100	8.5	1.65	100	90	1.65	UX6	P
AF	281 300 000		2.5				120		REC		20mA	UX4	R
AF2	542 310 000	A	4	2	200	100	4.25	2.5	200	100	3.2	B5	P
AF3	023 110 560	G ₁	4	3	250	100	8	1.8	250	100	1.8	8SC	P
AF7	023 110 560	G ₁	4	2	250	100	3	2.1	250	100	2.1	8SC	P
AG	289 300 000		5				120		REC		20mA	UX4	RR
AF8	026 546 310		6	2	200	50	3.5		No Data Available			A08	O
AG495	642 310 000		4	4	200		4	2.5	100		2.5	B5	T
AG4100	642 300 000		4	3	150		5	2	125		2	B4	P
AHI	023 145 560	G ₁	4	2	250	75	3	1.8	200	75	1.8	8SC	P
AHI00	023 145 560	G ₁	4	2.5	200	100	5.5	1.5	100	100	1.5	8SC	P
AH4105	542 310 000	A	4	2	200	125	4.5	2.3	100	100	2.3	B5	
AK2	123 164 570	G ₁	4	$\begin{Bmatrix} 2 \\ 2 \end{Bmatrix}$	100 250	75 75	4.2 4.3	0.9 2.2	80 100	75 75	0.9 2.0	$\begin{Bmatrix} \text{8SC} \end{Bmatrix}$	O

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
AL1	023 004 560		4	15	250	250	36	2.8	100	PenLF	2.8	8SC	P
AL2	023 100 560	G ₁	4	25	250	250	36	2.6	100	PenLF	2.6	8SC	P
AL2/375	023 100 560	G ₁	4	25	250	250	36	2.6	100	PenLF	2.6	8SC	P
AL3	245 231 600		4	3	250	250	36	9	100	PenLF	9	B7	P
AL3	023 104 560		4	6.5	250	250	36	9.5	100	150	8	8SC	P
AL4	145 231 600		4	3	250	250	36	9	100	PenLF	9.5	B7	P
AL4	023 104 560		4	6.5	250	250	36	9.5	100	150	8	8SC	P
AL4/375	145 231 600		4	6	250	250	34	9.5	100	PenLF	8	B7	P
AL4/375	023 104 560		4	6	250	250	34	9.5	100	150	8	8SC	P
AL5	145 231 600		4	14	250	275	72	8.5	100	PenLF	7	B7	P
AL5	023 104 560		4	15	250	250	72	7	100	150	6	8SC	P
AL5/375	023 104 560		4	14	250	275	72	8.5	100	PenLF	6	8SC	P
AL60	041 231 500	A	4(5)	7	250	250	72	14.5	100	PenLF	8.5	B7	P
AL495	642 310 000		4	12	250		20	4	100		4	B5	T
AMOE	045 231 600		4	14	250	250	72	9	100	PenLF	9	B7	P
AN4092	642 310 000	D ₁	4	3.5	200		6	2.0	100		2	B5	DT
AP495	642 310 000		4	1.5	200		2.5	5	150		5	B5	T
APP4A	045 231 600		4	16.5	250	250	36	3.5	100	PenLF	3.5	B7	P
APP4As	023 100 560	G ₁	4	16.5	250	250	36	3.5	100	PenLF	3.5	8SC	P
APP4B	045 231 600		4	5	250	250	32	10	100	PenLF	10	B7	P
APP4Bs	023 104 560		4	5	250	250	32	10	100	PenLF	10	8SC	P
APP4C	145 231 600		4(5)	5	250	250	36	10	100	PenLF	10	B7	P
APP4D	145 231 600		4	16	250	250	72	7	100	PenLF	7	B7	P
APP4E	145 231 600		4(5)	13.5	350	275	72	8.5	100	PenLF	8.5	B7	P
APP4E	023 104 560		4(5)	13.5	350	275	72	8.5	100	PenLF	8.5	8SC	P
APP4G	061 231 500	G ₁	4(5)	6	250	250	36	10	100	PenLF	10	B7	P
APP4G	005 231 600	G ₁	4(5)	6	250	250	36	10	100	PenLF	10	B7	P
APP495	642 350 000		4	23	300	200	25	2	100	100	2	B5	P
APP4100	642 310 000	S	4	15	250	250	24	2.5	100	150	2.5	B5	P
APP4120	642 310 000	S	4	15	350	200	22	3.5	100	100	3.5	B5	P
APV4	892 300 000		4				60		REC		20mA	B4	RR
APV4100	892 300 000		4				60		REC		20mA	B4	RR
APV4200	892 300 000		4				60		REC		20mA	B4	RR
AR495	642 310 000		4	1	100			5	100		5	B5	T
AR4100	642 310 000		4	3	200		3	2	150		2	B5	T
AR4101	642 310 000		4	1	100			3	100		3	B5	T
AS494	542 310 000	A	4		200	100	15	1.5	100	100	1.5	B5	P
AS495	542 310 000	A	4	2	200	100	1	3.4	200	100	3.4	B5	P
AS4100	542 310 000	A	4	6	200	100	4	1.425	100	90	1.4	B5	P
AS4120	542 310 000	A	4	2	200	100	3	3	150	100	3	B5	P
AS4125	542 310 000	A	4	2	250	100	3	3	200	100	3	B4	P
AX	264 300 000		5	9	150		3	0.8	100		0.8	UX4	T
AX1	892 300 000		4				60		REC		20mA	B4	RR
AX50	892 300 000		4				20		REC		30mA	B4	RR
AZI	023 080 090		4				30		REC		20mA	BSC	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
AZ2	023 080 090		4				60		REC		20mA	8SC	RR
AZ3	023 180 090		4				60		REC		20mA	8SC	RR
AZ4	023 080 090		4 (5)				60		REC		30mA	8SC	RR
AZ11	902 300 080		4				60		REC		20mA	F8	RR
AZ12	902 300 080		4 (5)				60		REC		20mA	F8	RR
AZ21	288 039 920		2				30		REC		17mA	A08	RR
AZ31	020 809 030		4				30		REC		20mA	A08	RR
AZ32	020 809 030		4				60		REC		20mA	A08	RR
AZ33	028 090 300		4				60		REC		20mA	A08	RR
AZ41	*8* **9 230		4				30		REC		10mA	B8A	RR
AZ50	023 080 090		4 (5)				120		REC		30mA	8SC	RR
B2	642 300 000		2	2	125		2	1.2	100		1.2	B4	T
B7	642 300 000		6		125		8	0.67	100		0.67	B4	T
B11	642 300 000		6		200		20	1.4	100		1.4	B4	T
B21	447 230 600		2	3	150		5.0	1.5	100		2.1	B7	TT
B22	446 230 700		2		150		5		150			B7	TT
B23	642 300 000		2		125		4	0.75	100		0.75	B4	T
B24	446 230 700		2	0	150		7		100			B7	TT
B30	461 236 400		13	0	175		30		100			B7	TT
B36	471 461 230		13	8	250		9	2.6	100		2.6	A08	TT
B63	264 147 300		6	5	250		6	3.1	200		3.1	UX7	TT
B65	471 461 230		6	8	250		9	2.6	100		2.6	A08	TT
B105	264 300 000		1.4	18	150		8	1.0	100			UX4	T
B105	642 300 000		1.4	18	150		8	1.0	100			B4	T
B152	741 226 413		6	2	250		10.0	5.5	200		5	B9A	TT
B203	642 300 000		2	26	150		11	1.5	100		1.5	B4	T
B204	264 300 000		2	22.5	125		8	0.9	100		0.9	UX4	T
B205	642 300 000		2	18	150		7	1.2	100		1.2	B4	T
B205	264 300 000		2	18	150		7	1.2	100		1.2	UX4	T
B217	642 300 000		4.5	4.5	150		3	1.3	100		1.3	B4	T
B217	264 300 000		2	4.5	150		3	1.3	100		3	UX4	T
B228	264 300 000		2	2	150		2	1.2	150		1.4	UX4	T
B228	642 300 000		2	2	150		2	1.2	100		1.2	B4	T
B230	446 230 700		2	1	150		5.5		150			B7	TT
B240	470 642 300		2	0	150		15		150			C7	TT
B240	264 473 000		2		150		15		No Data Available			UX6	TT
B242	542 300 000	A	2	0	200	75	4.5	1.1	100	75	1.1	B4	P
B242	254 300 000	A	2	0	200	75	4.5	1.1	100	75	1.1	UX4	P
B255	542 300 000	A	2	1	150	100	1.8	1.2	150	100	1.2	B4	P
B255	254 300 000	A	2	1	150	100	1.8	1.2	150	100	1.2	UX4	P
B262	542 300 000	A	2	1	150	100	1.8	1.3	150	100	1.3	B4	P
B262	265 300 000	G ₁	2	1	150	100	1.8	1.3	150	100	1.3	UX4	P
B309	741 226 413		6	2	250		10	5.5	100		5	B9A	TT
B319	147 234 116		7.5	1.5	90		12	6	100		6	B9A	TT
B329	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
B339	741 226 413	G ₁	6	2	250		1.2	1.6	150		1.6	B9A	T
B342	265 300 000		2	2.5	150	75	4	1.3	150	75	1.3	UX4	P
B403	642 300 000		4	30	150		15	1.5	100		1.5	B4	T
B403	264 300 000		4	30	150		15	1.5	100		1.2	UX4	T
B405	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
B405	264 300 000		4	18	150		11	1.6	100		1.4	UX4	T
B406	642 300 000		4	15	150		8	1.4	100		1.4	B4	T
B406	264 300 000		4	15	150		8	1.3	100		1.3	UX4	T
B409	642 300 000		4	16	250		12	2	100		2	B4	T
B409	264 300 000		4	16	250		12	2	100		2	UX4	T
B415	642 300 000		4	4.5	150		3	2	100		2	B4	T
B415	264 300 000		4	4.5	150		3	2	100		2	UX4	T
B242	642 300 000		4	2.3	200		6	2.5	150		2.5	B4	T
B424S	642 300 000		4	3	200		6	2.5	100		2.5	B4	T
B424	264 300 000		4	2.3	200		6	2.5	150		2.5	UX4	T
B425	642 300 000		4	4.5	150		3	2	100		2	B4	T
B425	264 300 000		4	4.5	150		3	2	100		2	UX4	T
B438	264 300 000		4	2.5	200		0.2	2	150		2	UX4	T
B438	642 300 000		4	2.5	200		0.2	2	150		2	B4	T
B438S	642 300 000		4	1.5	200		2	2	150		2	B4	T
B442	542 300 000	A	4	1	200	100	4.5	0.9	200	100	0.9	B4	P
B442M	542 300 000	A	4	1	200	100	4.5	0.9	100	100	0.9	B4	P
B442M	254 300 000	A	4	1	200	100	4.5	0.9	100	100	0.9	UX4	P
B442S	542 300 000	A	4	1	200	100	4.5	0.9	100	100	0.9	B4	P
B443	642 350 000		7	17	200	150	12	1.2	100	PenLF	1.2	B5	P
B443S	642 350 000		4	12	250	75	12	1.6	100	60	1.6	B5	P
B443	264 300 000	G ₂	4	17	200	150	12	1.2	100	PenLF	1.2	UX4	P
B443s	642 300 000	G ₂	4	12	250	75	12	1.6	100	60	1.6	B4	P
B443s	264 300 000	G ₂	4	12	250	75	12	1.6	100	60	1.6	UX4	P
B491	642 310 000		4	1.5	200		4	4	150		4	B4	T
B543	642 350 000		5	15	200	150	12	1.3	150	100	1.3	B5	P
B543(s)	642 350 000		5	15	200	150	12	1.3	150	100	1.3	B5	P
B543	264 300 000	G ₂	5	15	200	150	12	1.3	150	100	1.3	UX4	P
B543	642 300 000	G ₂	5	15	200	150	12	1.3	150	100	1.3	B4	P
B605	642 300 000		6	18	150		9	1.8	100		1.8	B4	T
B605	264 300 000		6	18	150		9	1.8	100	100	1.8	UX4	T
B609	642 300 000		6	18	250		12	1.8	100		1.8	B4	T
B719	741 236 410		6	2	250		10.0	6.0	250		6.0	B9A	TT
B2006	642 310 000		20	18	200		15	1.6	100		1.6	B5	T
B2038	642 310 000		20	3	200		6	2.3	100		2.3	B5	T
B2041	602 300 000	G ₁	20	1	100		2.5	0.1	100		0.1	B4	T
B2042	542 310 000	A	20	2	200	60	4	1	100	60	1	B5	P
B2043	642 310 000	S	20	18	200	200	20	1.7	100	100	1.7	B5	P
B2044S	642 310 000	D ₁	20	3	200		6	1.8	100		1.8	B5	DT
B2045	542 310 000	A	20	2	200	60	4	1	150	60	1	B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
B2046	542 310 000	A	20	2	200	100	3	2.2	150	100	2.2	B5	P
B2047	542 310 000	A	20	2	200	100	4	2	150	100	2	B5	P
B2055	542 310 000	A	20	1.5	200	100	3	2	100	100	2	B5	P
B2052T	542 310 000	A	20	2	200	100	3	2	150	100	2	B5	P
B2099	642 310 000		20	1.6	200		0.2	3	150		3	B5	T
BA2	446 230 700		2	0	150		1.5		150			B7	TT
BB1	902 310 000	D ₁	16						D			B5	DD
BBC12	682 390 000	G ₁	2	4.5	150		2.5	1.5	100		1.5	B5	DDT
BB220A	446 230 700		2	3	150		4		100			B7	TT
BB240	446 230 700		2	6	150		2.2		100			B7	TT
BCH1	465 231 700	G ₁	24	{	100		5	1.2	100		1.2	} B7	TP
					200	50	1.3	0.75	100	60			
BFI	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
BF61	261 054 130		6	7	250	250	36	10	100	150	8	B8A	P
BF62	261 054 130		6	10	225	225	26	3.2	100	150	3.2	B8A	P
BF451	261 054 130		45	9	175	175	54.5	9.5	100	100	7	B8A	P
BL2	652 310 000	G ₁	30	20	200	100	40	3	100	90	3	B5	P
BL63	027 146 310	G ₁	6	16	250		14	4.2	100		4.2	A08	TT
BHP61	023 010 560	G ₁	2	0.5	125	125	2.5	0.7	125	125	0.7	8SC	P
BLP61	023 004 560		2		150	150	7	2.7	100	100		8SC	P
BM968	200 300 000	D ₁	2.5				60		REC		35mA	UX4	R
BPM04	412 365 400		6.3	12.5	250	250	45	4.1	100	PenLF	4	B7G	P
BW3	642 350 000		2	4.5	150	125	6	2.2	100	100	2.2	B5	P
BW602	642 300 000		2	12	150		12	3.4	100		3.4	B4	T
BW1304	642 300 000		2	6	150		6	3.2	100		3.2	B4	T
BX2	446 230 700		2	0	175		2.5		100			B7	TT
BX604	642 300 000		2	12	150		8	1.5	100		1.5	B4	T
C3G	261 504 130		6.3	1.8	225	150	13	13.5	100	100		B8B	P
C3G	216 514 130		6.3	1.8	225	150	13	13.5	100	100		B8B	P
C3M	261 504 130		20	4.5	225	150	15.0	6.0	100	100	5.2	B8B	P
C9	642 300 000		4	9	150		3.5	0.9	100		0.9	B4	T
C10B	023 100 080		20				75		REC		23mA	8SC	R
C10B	802 310 000		20				60		REC		23mA	B5	R
C20C	982 310 000		13						D			B5	DD
C23B	809 231 600	G ₁	13	5	200		4	2	100		2	B7	DDT
C25	642 300 000		4	2.5	200		2.3	1.2	150		1.2	B4	T
C30	261 504 130		6.3	4.5	225	150	15	6	100	100		B8B	P
C30B	000 231 600	G ₁	13	4	200		4	3.2	150		3.2	B7	T
C36A	645 231 740		21	{	100		4	2	125	60	1.2	} B9	TH
					225	75	3		100	75			
C36C	645 231 740		29	{	100		4	2	100	60		} B9	TH
					225	75	3	3.5	250	100			
C36B	645 231 700	G ₁	29	{	100				100	75	5.0	} B7	TH
					250	150	3.4		200	75	3.0		
C50B	061 231 500	G ₁	12	2.2	200	200	2.5	2.8	100	PenLF	2.8	B7	P
C50N	061 231 500	G ₁	13	2	200	200	9.5	2	100	150	2	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
C70D	023 110 560	G ₁	33	8.5	200	200	45	8	100	PenLF	7	8SC	P
C70D	045 231 600		35	8.5	200	200	45	8	100	PenLF	7	B7	P
C80B	123 154 560	G ₁	13	1.5	200	90	1.9		150	75		8SC	O
CI09	642 300 000		1	9	150		3.5	0.5	100		0.5	B4	T
CI25	642 300 000		1	3	150		0.75	0.8	125		0.8	B4	T
CI35	042 300 000	A	1.4	0	150		1.5	1	150		1	B4	T
CI42	542 300 000	A	1	1.5	150	75	1.7	0.8	100		0.8	B4	P
CI44	245 134 200	A ₁ A ₂	6.3	15	300	200	40	9	No Data Available			B7A	PP
CI80	245 134 200	A ₁ A ₂	6.3	20	300	250	55	3.5	No Data Available			B7A	PP
C243	642 350 000		2	15	150	150	17	1.5	100	100	1.5	B5	P
C243N	642 350 000		2	4.5	150	125	6	3.2	150	100	2.2	B5	P
C243N	264 530 000		2	4.5	150	125	6	2.2	150	100	2.2	UX5	P
C405	642 300 000		4	32	250		20	1.9	100		1.9	B4	T
C405	264 300 000		4	32	250		20	1.9	100		1.9	UX4	T
C408	642 300 000		4	7	150		14	2.9	100		2.9	B4	T
C443	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
C443N	642 350 000		4	42	300	200	20	1.5	100	PenLF	1.5	B5	P
C443N/S	642 350 000		4	20	300	150	20	1.5	100	100	1.5	B5	P
C453	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
C508	264 300 000		5	9	150		6.2	1.7	100		1.7	UX4	T
C509A	642 300 000		5	10	150		10	1	100		1	B4	T
C603	642 300 000		6	40	175		20	1.7	100		1.7	B4	T
C606	642 300 000		6	27	250		20	3.3	100		3.5	B4	T
C643	642 350 000		6	21	300	200	20	1.5	100	PenLF	1.5	B5	P
CB215	446 230 700		2	1	150		15	1.7	100		1.7	B7	TT
CB215S	023 064 470		2	1	150		12	1.7	100		1.7	8SC	TT
CB220	446 230 700		2	3	150		15		100			B7	TT
CBC1	023 198 060	G ₁	13	7	250		4	2	100		2	8SC	DDT
CBL1	023 189 560	G ₁	44	8.5	200	200	45	8	100	PenLF	7	8SC	DDP
CBL6	023 198 560	G ₁	44	8	100	100	45	6	100	75	6	8SC	DDP
CBL31	026 985 310	G ₁	44	8.5	200	200	45	8	100	PenLF	7	A08	DDP
CCI	023 100 060	G ₁	13	3.7	200		2.6	2	150		2	8SC	T
CC2	023 100 060	G ₁	13	5.5	250		6	2.5	200		2.5	8SC	T
CCH1	023 156 470	G ₁	20	10	200		2.5	2.3	100	60	2.3	8SC	TH
				2	200	50	2		100	60			
				10	200		2.5	2.3	100	60	2.3		
CCH2	023 164 570	G ₁	29	2	200	75	2		100	75		8SC	TH
CCH35	027 546 310	G ₁	7.5	2	100		5.4	2.2	100	60	2.8	A08	TH
				2	250	100	5	2.4	200	100	4		
CE230	320 200 000	D ₁	2.5				30		REC		15mA	UX4	R
CF1	023 110 560	G ₁	13	2	200	100	3	2.3	100	100	2.3	8SC	P
CF2	023 110 560	G ₁	13	2	200	100	4.5	2.2	100	100	2.2	8SC	P
CF3	023 110 560	G ₁	13	2	100	75	7.5	2.1	100	75	2.1	8SC	P
CF7	023 110 560	G ₁	13	2	100	100	3	2.1	100	100	2.1	8SC	P
CF50	123 100 560	G ₁	30	2	200	100	1.5	3.3	100	100	3.3	8SC	P
CF51	123 100 560	G ₁	30	2	250	100	1.7	3.3	100	100		8SC	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
CF61	276 454 130		6	2 2	100 250	100	5 3	2.2 2	100 100		2.8 2.4	B8A	TH
CF141	276 454 130		14	2 2	100 200	90	6.4 2.7	2.2 1.5	100 100	100 75	2.8 1.5	B8A	TH
CHI	023 145 560	G ₁	13	2	250	75	3	1.8	200	75	1.8	8SC	P
CK1	023 154 560	G ₁	13	1.5	200	90	8	3	200	75	1.6	8SC	P
CK3	023 154 560	G ₁	19	15	200	100	2.5		No Data Available			8SC	O
CK546	653 420 000		1.25	0	20	20	0.4	0.45	No Data Available			B5A	P
CK1002	008 090 010		6				30	3KΩ	No Data Available			A08	CCR
CK1005	008 092 030		6.3				30		REC		15mA	A08	RR
CK1006	289 300 000		2				60		REC		20mA	UX4	RR
CK1007	008 092 030		1				60		REC		20mA	A08	RR
CK1012	289 300 000		2				120		REC		30mA	UX4	RR
CK1024	008 090 010		6				60	3KΩ	No Data Available			A08	CCR
CK1028	202 322 300	D ₁	6				60		REC		20mA	B7G	R
CK1091	200 900 300		1.4						D			B7G	D
CK5814	741 226 413		6	8.5	250		10.5	2.2	100		2.2	B9A	TT
CL1	023 100 560	G ₁	13	14	200	200	25	2.5	100	PenLF	2.5	8SC	P
CL2	023 100 560	G ₁	24	15	100	100	50	3.8	200	75	3.8	8SC	P
CL3	160 452 300		35	9.5	200	200	40	5.5	150	100	5	C7	P
CL4	023 100 560	G ₁	33	8.5	200	200	45	8	100	PenLF	7	8SC	P
CL6	023 100 560	G ₁	35	9.5	200	100	45	8	100	90	7	8SC	P
CL33	026 540 310		33	8.5	200	200	45	8	100	100	7	A08	P
CV135	812 380 000		6				60		REC		23mA	B7G	R
CV137	812 314 600		6	3	200		7.5	2.5	100		2.5	B7G	DT
CV139	412 314 600		6	1.5	250		10	9	100		6	B7G	T
CV1510	265 501 403		6		400	250	30	3	100	150	3	B9G	P
CY1	023 100 080		20				60		REC		60mA	8SC	R
CY1c	803 210 000		20				60		REC		20mA	B5	R
CY2	123 190 080		30				60		REC		20mA	8SC	RR
CY21	208 001 003		25				120		REC		23mA	B9A	R
CY31	020 080 310		20				120		REC		60mA	A08	R
CY32	029 180 310		30				60		REC		23mA	A08	RR
CZ30	028 193 210		80				60		REC		20mA	A08	RR
CZ501d	265 113 000	G ₁	3.5	2.5	250	125	6.5	3.5				UX6	P
CZ504D	265 413 000		5.5	13.5	250	200	40	3.5				UX6	P
D020	642 300 000		7.5	50	400		55	2.1	100		2.1	B4	T
D ₁	280 300 000		7.5				60		REC		20mA	UX4	R
D1	123 000 000	D ₁	4				5		D			B3G	R
D1	642 300 000		4	1	40		1	0.8	No Data Available			B4	T
D1	289 300 000		5				60		REC		20mA	UX4	RR
D2	642 300 000		4	6	100		2.2	0.25	100		0.25	B4	T
D2M9	182 310 900		6.3				5		D			B7G	DD
D4	642 310 000		4	3	200		4	3.3	150		3.3	B5	T
D13U	023 100 060	G ₁	13	5	225		6	2.5	100			8SC	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
D024	642 300 000		4	40	400		63	7.5	100		6.0	B4	T
D025	642 300 000		6	75	300		60	3.75	100		3.75	B4	T
D026	642 300 000		4	92	400		63	3.8	100		3.8	B4	T
D030	642 300 000		4	100	400		60	6.9	100		6.0	B4	T
DO42	918 236 500	G ₁	4	6	250	250	36	9.5	100	150	8.0	B7	DDP
D41	892 310 000		4						D			B5	DD
D42	812 300 000		4				15		D			B4	D
D43	012 300 000	A	4				15		D			B5	DD
D61	268 154 130		6.3	2	250	125	5	1.8	100	100		B8A	DP
D63	028 190 310		6						D		9mA	A08	DD
D77	192 310 800		6						D			B7G	DD
D105	264 300 000		1	18	150		8	2	150		2	UX4	T
D105	642 300 000		1	18	150		8	2	150		2	B4	T
D110	264 300 000		4	40	250		40	2.7	100		2.7	UX4	T
D110	642 300 000		4	40	250		40	2.7	100		2.7	B4	T
D121	268 154 130		12.5	2	200	90	5	2	100	100	2	B8A	DP
D152	192 310 800		6						D			B7G	RR
D210	642 300 000		2	3	150		3.5	1.25	100		1.25	B4	T
D210DW	603 200 000	G ₁	2	4.5	150		2.4	1.35	100		1.35	B4	T
D243	642 350 000		2.5	27	300	200	20	2	100	PenLF	2	B5	T
D400	892 310 000		4						D			B5	DD
D404	642 300 000		4	40	250		40	2.7	100		0.45	B4	T
D410	642 300 000		4	3	150		3.5	0.5	150		0.5	B4	T
D418	102 300 000	D ₁	4						D			B4	D
D604	023 181 910		6						D			8SC	DD
DA	000 231 600	G ₁	13	2.6	200		3.7	2.2	150		2.2	B7	T
DA1	642 300 000		2	1	40		0.35	0.4	No Data Available			Sm4	T
DA2	642 300 000		2	2.15	40		1.25	0.5	No Data Available			Sm4	T
DA3	642 300 000		2	2.8	40		1.8	0.62	No Data Available			Sm4	T
DA30	642 300 000		4(5)	70	300		60	3.5	100		6.0	B5	T
DA42	214 300 000	A ₁	7.5		400			3.0	No Data Available				T
DA90	281 0*8 300		1.4				5		D			B7G	R
DA101	200 800 300		1.2						D			B7G	D
DA406	542 300 000	A	4	2.5	150	75	3	0.8	100	75	0.8	B4	P
DAC1	023 008 060	G ₁	1.4	0	90		0.14	0.27	80		0.27	8SC	DT
DAC21	206 008 030	G ₁	1.4	0	125		0.75	0.4	80		0.3	A08	DT
DAC22	264 008 030		1.25	0	90		0.35	0.3	90		0.3	B8G	DT
DAC25	264 228 230		1.25	0	125		0.6	0.35	125		0.35	A08	DT
DAC31	036 080 200	G ₁	1.4	0	90		0.45	0.27	80		0.27	A08	DT
DAC32	036 080 200	G ₁	1.4	0	90		0.15	0.275	90		0.275	A08	DT
DAF1	802 362 450		1.2	0	125	60	1.4		125	60		F8	P
DAF11	802 362 450		1.2	0	90	50	0.8	0.55	80	60	0.55	F8	DP
DAF40	268 354 230		1.4	0	75	75	0.85	0.7	80	75	0.8	B8A	DP
DAF41	268 354 230		1.4	1.0	75	75	0.85	0.7	80	75	0.8	B8A	DP
DAF70	604 238 050		1.25	0	60	60	0.8	0.45	80	75		B8D	DP

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DAF91	208 564 300		1.4	1	90	90	2	0.72	80	90	0.72	B7G	DP
DAF92	265 804 300		1.4	1	90	90	2	0.72	90	90	0.72	B7G	DP
DAF96	208 564 300		1.4	1.5	60	60	0.17	0.17	80	75	0.17	B7G	DP
DAFI91	2*8 564 300		1.4	0	60	60	2.2	0.75	No Data Available			B7G	DP
DASI	542 300 000	A	2	2.7	125	125	1.5	0.58	100	100	0.58	Sm4	P
DB	446 230 700		25	0	250		40		250			B7	TT
DBC21	206 098 030	G ₁	1.4	1.5	125		1.6	0.9	100		0.9	A08	DDT
DBC25	208 904 630		1.25	1.5	125		1.6	0.9	125		0.9	B8B	DDT
DBC31	026 980 300	G ₁	1.4	1.5	125		1.6	0.9	100		0.9	A08	DDT
DC2/HLDD	809 231 600	G ₁	25	1	200			2	100		2	B7	DDT
DC2P	642 310 000		35	13.5	200		17	3.75	100		3.75	B5	T
DC2/Pe _n	045 231 600		35	10	250	200	30	2.5	100	100	2.5	B7	P
DC2/Pe _n	642 310 000	S	35	10	250	200	30	2.5	100	100	2.5	B5	P
DC2SG	542 310 000	A	20	1	200	75	5.5	1.8	200	75	1.8	B5	P
DC2SGVM	542 310 000	A	20	2	200	60	5.8	1.5	200	60	1.5	B5	P
DC3HL	642 310 000		25	1	80		0.34	0.38	100		0.38	B5	T
DC11	602 302 400		1.25	2.5	90		2.0	1.0	80		1.0	F8	T
DC25	260 024 030		1.25	3.5	100		1.8	0.85	100		0.85	B8B	T
DC70	400 230 060		1.25	4.5	150		14.5	3.7	100		3.4	B8D	T
DC80	402 320 060		1.2	3.5	150		20	3.5	100			B9A	T
DC90	266 044 300		1.4	3.0	90		3.0	1.1	90		1.1	B7G	T
DC93	204 036 200		1.4	5	100		10	2.4	100		2.3	B7G	T
DC96	266 044 300		1.4	2.5	90		2.1	1.0	90		0.95	B7G	T
DC193	2*4 *36 200		1.4	5	100		10	2.4	100		2.4	B7G	T
DCC90	274 346 200		1.4	2.5	90		3.7	1.8	80		1.8	B7G	TT
DCH1	207 540 630	G ₁	1.4	{	60		2.1	1.4	60	60	1.4	A08	TH
					125	125	1.0	1.0	100	100			
DCH11	642 273 450		1.25	{	90		0.85		100	60		F8	TH
					125	60	1.0		100	60			
DCH21	207 540 630	G ₁	1.4	{	60		2.1	1.4	No Data Available			A08	TH
					90	60	1		80	60			
DCH22	276 454 030		1.25	{	60		1.4		No Data Available			A08	TH
					90	50	0.75						
DCH25	276 454 030		1.4	{	60		2	1.3	No Data Available			A08	TH
					90	60	1		80	60			
DCH31	027 546 300	G ₁	1.4	{	60		2.1	1.4	No Data Available			A08	TH
					90	60	1	1.4	80	60			
DC/HL	642 310 000		6	1	100			3	100		3	B5	T
DC/P	642 310 000		8	1	200			4.5	200		4.5	B5	T
DC/SG	542 310 000	A	6	0	125	75		2.75	200	75	2.75	B5	P
DD4	892 310 000		4						D			B5	DD
DD4D	091 231 800		4						D			B7	DD
DD6	892 310 000		6						D			B5	DD
DD6	192 310 800		6						D			B7G	RR
DD6Ds	023 190 910		6						D			8SC	DD
DD6G	192 310 800		6						D			B7G	DD

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DD13	892 310 000		13				5		D			B5	DD
DD41	219 080 130		4						D			M08	RR
DD101	219 080 130		10						D			M08	DD
DD207	892 300 000		2						D			B4	DD
DD465	902 310 000	D ₁	4						D			B5	DD
DD620	892 310 000		6						D			B5	DD
DD818	892 310 000		8						D			B5	DD
DD960	204 036 200		1.4	3	60		9	2.45	No Data Available			B7G	T
DDA1	892 310 000		4						D			B5	DD
DDD11	742 302 460		1.2	4.5	125		1.5	1.0	125		1.5	F8	TT
DDD25	206 447 030		1.4	1.5	100		3.5	1.2	100		1.2	A08	TT
DDL4	892 310 000		4				5		D			B5	RR
DDP4B	968 231 500	G ₁	4	5	250	250	36	8	100	PenLF	7	B7	DDP
DDP4M	918 236 500	G ₁	4	5	250	250	36	8	100	PenLF	7	B7	DDP
DD/Pen	849 231 500	A	4	2.5	200	100	5	2.7	100	100	2.7	B7	DDP
DDPP4B	869 231 500	G ₁	4	5	250	250	36	10	100	PenLF	9	B7	DDP
DDPP4BS	023 189 560	G ₁	4	5	250	250	36	10	100	PenLF	9	8SC	DDP
DDPP4M	869 231 500	G ₁	4(5)	5	250	250	36	10	100	PenLF	9	B7	DDP
DDPP6B	968 231 500	G ₁	6	6	250	250	36	9.5	100	PenLF	9	B7	DDP
DDPP6BS	023 189 560	G ₁	6	5	250	250	36	10	100	PenLF	9	8SC	DDP
DDPP39	968 231 500	G ₁	39	8	200	200	45	8.5	100	PenLF	8	B7	DDP
DDPP39M	918 236 500	G ₁	39	8	200	200	45	8.5	100	PenLF	8	B7	DDP
DDPP39S	023 198 560	G ₁	44	8	200	20	45	8.5	100	PenLF	8	8SC	DDP
DDR2	256 101 403		6	5	250	250	40	12	No Data Available			B9G	P
DDR3	812 380 000		6				60		REC		20mA	B7G	R
DDR7	412 360 500		6	12.5	250	250	16	2.6	100	PenLF	2.6	B7G	P
DDT	908 231 600	G ₁	4	3	200		3.4	2.4	100		2.4	B7	DDT
DDT2	682 390 000	G ₁	2	3	150		1	1.4	100		1.4	B5	DDT
DDT2B	682 390 000	G ₁	2	4.5	150		2.5	1	100		1.0	B5	DDT
DDT2BS	023 089 060	G ₁	2	4.5	150		2.5	1	100		1.0	8SC	DDT
DDT4	809 231 600	G ₁	4	3				2.5	150		2.5	B7	DDT
DDT4(S)	908 231 600	G ₁	4	5	200		3	3.6	150		3.6	B7	DDT
DDT4(S)	023 198 060	G ₁	4	5	250		4	3.6	150		3.6	8SC	DDT
DDT6	809 231 600	G ₁	6	5.5	250		4	2	150		2	B7	DDT
DDT6S	023 189 060	G ₁	6	5.5	250		5	2	150		2	8SC	DDT
DDT13	908 231 600	G ₁	13	4	200		5	2.0	150		2.3	B7	DDT
DDT13S	023 189 060	G ₁	13	5	200		4	3.6	100		3.6	8SC	DDT
DDT16	809 231 600	G ₁	16	3	200		5	2.5	100		2.5	B7	DDT
DDT213	809 231 600	G ₁	13	4	200		5	2.25	150		2.2	B7	DDT
DDT215	682 390 000	G ₁	2	3	150		3	1.6	100		1.6	B5	DDT
DDT220	682 390 000	G ₁	2.5	4.5	150		2.5	1	100		1.0	B5	DDT
DE1	264 130 000		2.5	21	250		5.2	0.975	100		0.975	UX5	T
DE5	280 300 000		2.5				120		REC		30mA	UX4	R
DET19	204 140 300	A ₁ A ₂	6		300		25	2.1	No Data Available			UX7	TT
DET20	020 000 310	A ₁ G ₁	6	5.5	250		12	3	100		3	A08	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DFI	032 000 560	G ₁	1.4	0	90	90	1.2	0.75	80	90	0.75	B5C	P
DF11	602 302 450		1.2	0	90	50	0.9	0.65	80	60	0.6	F8	P
DF21	206 501 030	G ₁	1.4	0	90	90	1.2	0.7	80	90	0.7	A08	P
DF22	206 501 030	G ₁	1.4	1.5	90	90	1.4	1.1	80	90	1.1	A08	P
DF23	265 114 130		1.25	1.5	90	60	0.65	0.58	80	60	0.58	A08	P
DF25	265 114 130		1.25	0.5	125	60	1	0.65	125	60	0.65	A08	P
DF26	265 114 130		1.25	1.1	125	90	1.2	0.3	125	90	0.3	A08	P
DF31	026 510 300	G ₁	1.4	0	90	90	1.2	0.65	80	90	0.65	A08	P
DF32	026 510 300	G ₁	1.4	1.5	90	90	1.4	1.1	80	90	1.1	A08	P
DF33	036 500 200	G ₁	1.4	0.5	90	90	0.82	0.75	80	90		A08	P
DF60	652 430 000		1.25	2.0	60	60	0.5	0.8	No Data Available			B5A	P
DF61	652 430 000		1.25	1.0	60	60	0.9	0.8	No Data Available			B5A	P
DF62	652 430 000		1.25	1.0	90	90	7.4	2.0	80	75		B5A	P
DF64	652 430 000		0.625	0.62	20	20	0.60	0.1	No Data Available			B5A	P
DF65	265 430 000		0.625	1.15	20	20	0.05	0.1	No Data Available			B5A	P
DF66	653 420 000		0.625	1.05	20	20	0.05	0.1	No Data Available			B5A	P
DF67	653 420 000		0.625	1.15	20	20	0.05	0.1	No Data Available			B5A	P
DF70	*4* 23* 650		0.625	0	40	40	0.37	0.22	No Data Available			B8D	P
DF72	*40 230 650		1.25	0	60	60	1.7	1.0	No Data Available			B8D	P
DF73	*40 230 650		1.25	0	80	75	1.7	0.8	80	75	0.8	B8D	P
DF91	265 024 300		1.4	0	90	75	3.5	0.9	80	60	0.9	B7G	P
DF92	265 024 300		1.4	2.0	90	60	1.9	0.7	80	60	0.7	B7G	P
DF95	265 024 300		1.4	1	90	75	3.7	1	80	60	1	B7G	P
DF96	265 *24 300		1.4	0.8	75	75	1.4	0.65	80	75	0.75	B7G	P
DF97	265 224 300		1.4	0	60	60	1.68	0.84	80	75	0.8	B7G	P
DF167	653 420 000		0.625	0	20	20	0.1		No Data Available			B5A	P
DF191	265 *24 300		1.4	0	60	60	4.2	1	No Data Available			B7G	P
DF904	265 *24 300		1.4	0	90	90	1.6	0.9	90	90	0.9	B7G	P
DF906	265 3*4 300		1.4	0	40	40	3	1.7	No Data Available			B7G	P
DFF50	246 557 430		1.4	1.1	20	20	2.25	1.2	No Data Available			A08	PP
DFF51	246 557 430		1.4	0	20	20	2.1	0.7	No Data Available			A08	PP
DFF101	634 572 400		1.4	0	40	40	1	0.22	No Data Available			B7G	PP
DG210	642 350 000		2	1.5	100	20	1	1	No Data Available			B5	P
DH	642 310 000		16	3	200		6	3.7	100		3.7	B5	T
DH30	908 231 600	G ₁	13	2	200		2.8	4.5	150		4.5	B7	DDT
DH42	908 231 600	G ₁	4	3	250		1.1	1.2	150		1.2	B7	DDT
DH63	026 890 310	G ₁	6	3	250		1.1	1.2	150		1.2	A08	DDT
DH73	026 890 310	G ₁	6	3	250		4.5	2	250		2	A08	DDT
DH74	026 890 310	G ₁	13	3	250		1.1	1.2	100		1.2	A08	DDT
DH76	026 980 310	G ₁	13	3	250		1.1	1.2	150		1.2	A08	DDT
DH77	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
DH81	264 *98 130		6	3	250		1	1.2	150		1.2	B8B	DDT
DH101	264 *98 130		19	3	250		1	1.2	150		1.2	B8B	DDT
DH107	412 389 600		19	3	250		1	1.2	150		1.2	B7G	DDT
DH142	264 098 130		14	1.6	175		1.5	1.65	100		1.4	B8A	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DH147	026 890 310	G ₁	6	5.5	250		5	2	100		2	A08	DDT
DH149	264 198 130		6	1.0	250		1.3	1.0	250		1.0	B8A	DDT
DH150	264 098 130		6	3	250		10	1.3	150		1.3	B8A	DDT
DH719	981 23† 146		6	3	250		1.0	1.3	100		1.3	B9A	DDDT
DHD	908 231 600		16	3.2	200		3.2	2.2	200		2.2	B7	DDT
DHL	642 310 000	G ₁	16	1.5	150		3.8	4.5	100		4.5	B5	T
DK1	023 064 560		1.4	0	90	50	1.8	0.55	80	60	0.55	8SC	H
DK21	206 540 630		1.4	2	60	60	4.5	1.4	80	60	1.4	A08	H
DK32	036 546 200		1.4	0	90	50	1.8	0.55	80	60	0.55	A08	H
DK40	265 454 030		1.4	2	75	75	0.9	0.7	80	75		B8A	O
DK91	266 424 300	G ₁	1.4	4	75		4.5	1.2	80		1.4	B7G	H
DK92	266 464 300		1.4	4	60		4.0	1.2	80		1.2	B7G	H
DK96	265 461 300		1.4	1.5	75	50	1.0	0.4	80	60	0.4	B7G	H
DK192	265 454 300		1.4		60	60			No Data Available			B7G	H
DL	642 310 000		16	8	200		25	4.5	100		4.5	B5	T
DL1	023 004 560	G ₁	1.4	3	90	90	4	1.25	80	75	1.25	8SC	P
DL2	032 004 560		1.4	7.5	90	90	7.5	1.55	80	75	1.55	8SC	P
DL11	602 302 450		1.2	4.4	90	90	3.7	1.0	80	90	1	F8	P
DL21	206 540 030		1.4	3	90	90	4	1.3	80	90	1.3	A08	P
DL22	265 024 330		1.25	4	125	125	5	1.6	100	100	1.6	A08	P
DL25	265 204 330	G ₁	1.25	4.7	125	125	4.5	2.1	100	100	2.1	A08	P
DL31	036 540 200		1.4	3	90	90	4	1.25	80	75	1.25	A08	P
DL33	036 540 320		1.4	4.5	90	90	9.5	2.2	80	75	2.2	A08	P
DL35	036 540 200		1.4	7.5	90	90	7.5	1.55	80	75	1.55	A08	P
DL36	036 540 200		1.4	4.5	90	90	9.5	2.2	90	90	2.2	A08	P
DL41	362 054 220	G ₁	1.4	5.8	125	125	5	1.3	80	90	1.3	B8A	P
DL63	026 890 310		6	3	250		4.2	1.6	100		1.6	A08	DDT
DL64	652 430 000		1.25	1.5	20	20	0.16	0.18	No Data available			B5A	P
DL65	365 420 000		1.25	0.2	20	20	0.47	0.42	No Data Available			B5A	P
DL66	653 420 000		1.25	1.4	20	20	0.3	0.35	No Data Available			B5A	P
DL67	653 420 000	G ₁	1.25	0.2	20	20	0.47	0.42	No Data Available			B5A	P
DL68	653 420 000		1.25	2.2	20	20	0.6	0.43	No Data Available			B5A	P
DL69	652 430 000		1.25	2.5	90	90	1.75	0.85	80	75	0.85	B5A	P
DL70	*4* 23* 650		1.25	7.5	150	90	7.5	1.9	150	90	1.0	B8D	P
DL71	*4* 23* 650		1.25	1.25	40	40	0.6	0.55	No Data Available			B8D	P
DL72	*4* 23* 650	G ₁	1.25	4.5	40	40	1.25	0.5	No Data Available			B8D	P
DL73	*40 230 650		1.25	9	100	100	15	2.5	100	100	3.8	B8D	P
DL74	026 890 310		13	3	250		5.1	1.65	100		1.65	A08	DDT
DL75	*40 230 650		1.25	2.5	90	90	1.7	0.85	90	90	0.9	B8D	P
DL82	264 *98 130		6.0	3	250		5.0	1.4	150		1.4	B8B	DDT
DL91	264 526 300	G ₁	1.4	7	90	75	7.4	1.58	80	60	1.5	B7G	P
DL92	264 536 200		1.4	7	90	75	7.4	1.58	80	75	1.58	B7G	P
DL93	365 426 300		1.4	8.4	150	90	13.3	1.9	100	75	1.9	B7G	P
DL94	365 024 300		1.4	4.5	90	90	9.5	2.15	80	75	2.15	B7G	P
DL95	264 536 200		1.4	4.5	90	90	9.5	2.15	80	75	2.1	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DL96	265 034 200		1.4	5.2	90	90	5.0	1.4	80	60	1.4	B7G	P
DL98	524 233 600		1.25	38	150	125	25	1.7	No Data Available			B7G	P
DL167	653 420 000		1.25		20	20	0.5	1.5	No Data Available			B5A	P
DL145	264 098 130		15	5.9	250		5	2.3	150		2.3	B8A	DDT
DL192	264 536 200		1.4	7	60	60	7	1.5	No Data Available			B7G	P
DL193	265 436 200		1.4	7.5	105	60	9.5	2.9	150	60	2.9	B7G	P
DL620	653 420 000		1.25	6.5	60	60	3.1	0.65	80	75	0.65	B5A	P
DL651	653 420 000		1.25	0	20	20	0.4	0.45	No Data Available			B5A	P
DL907	365 004 200		1.4	5.5	125	125	15	3.1	125	125	3.1	B7G	P
DLL21	246 547 330		1.4	8.7	125	125	1		100	100		A08	PP
DLL25	046 547 230		1.4	9.4	125	125	17		125	125		B8G	PP
DLL31	326 447 250		1.4	5	90	90	3		80	75		A08	PP
DLL101	264 574 300		1.4	7	90	60	8.2	1.1	80	60	1.2	B7G	PP
DLL102	264 574 300		1.4	0	40	40	1.3	0.55	No Data Available			B7G	PP
				0	40	40	2.0	0.55	No Data Available				
DLP51	023 004 560	C	4	17	250	250	36	2.5	No Data Available			8SC	P
DN41	968 231 500	G ₁	4	3.3	250	200	32	10	100	PenLF	9	B7	DDP
DN143	264 598 130		6	6.2	250	275	44	9.5	100	PenLF	9	B8B	DDP
DO24	642 300 000		4	40	400		63	7.5	100		6.5	B4	T
DO26	642 300 000		4	92	400		63	3.8	100		6.3	B4	T
DO30	642 300 000		4	100	400		60	4	100		4	B4	T
DP	264 008 030		16	7.5	200		25	6	100		6	A08	DT
DP5	642 350 000		4	5	250	250	10	4	100	PenLF	4	B5	P
DP7	023 004 560		4	20	250	250	20	2.5	100	PenLF	2.5	8SC	P
DP61	412 365 100		6	8.5	175	125	7.7	5.1	150	150	4	B7G	P
DP495/6	869 231 500	G ₁	4	6.5	250	250	35	9.5	100	PenLF		B7	DDP
DP4480	819 236 500	G ₁	44	8.4	200	200	46	8	100	PenLF	7	B7	DDP
DP/Pen	045 231 600		16	10	200	200	31	3.5	100	100	3.5	B7	P
DPT	045 213 600		16	10	200	200	40	3.1	100	PenLF	3.1	B7	P
DPT	642 310 000	G ₂	16	10	200	200	40	3	100	PenLF	3	B5	P
DS	000 231 600	G ₁	13	3	200		4	2.5	150		2.5	B7	T
DS	542 310 000	A	16	1.5	200	75	2.8	1.1	200	75	1.1	B5	P
DSB	542 310 000	A	16	1	150	90	3.4	3.2	150	90	3.2	B5	P
DSPen	061 231 500	G ₁	16	1.5	200	100	4.0	2.3	200	100	2.3	B7	P
DT7	642 300 000		4	16	200		14	2	100		2	B4	T
DT436	023 198 060	G ₁	4	7	250		4	2	100		2	8SC	DDT
DT1336	023 198 060	G ₁	13	5	200		4	2	100		2	8SC	DDT
DU1	802 300 000		4				30		REC		15mA	B4	R
DU2	892 300 000		4				30		REC		17mA	B4	RR
DU3	892 300 000		4				15		REC		10mA	B4	RR
DU4	892 300 000		4				30		REC		15mA	B4	RR
DU5	892 300 000		4				30		REC		17mA	B4	RR
DU10	802 300 000		4				60		REC		25mA	B4	R
DVSG	542 310 000	A	16	1	200	75	7.5	2.5	100	75	2.5	B5	P
DVS Pen	542 310 000	A	16	1.5	200	100	6.5	1.0	200	100	3	B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DW1	892 300 000		4				15		REC		10mA	B4	RR
DW2	892 300 000		4				30		REC		20mA	B4	RR
DW2X	892 300 000		4				30		REC		20mA	B4	RR
DW3	892 300 000		4				60		REC		20mA	B4	RR
DW4	892 300 000		4				60		REC		20mA	B4	RR
DW4/350	892 300 000		4				60		REC		20mA	B4	RR
DW4/500	892 300 000		4				60		REC		20mA	B4	RR
DW5	802 300 000		4				120		REC		30mA	B4	R
DW7X	892 300 000		4				30		REC		15mA	B4	RR
DW8	892 300 000		5				30		REC		15mA	B4	RR
DW30	892 300 000		7.5				60		REC		20mA	B4	RR
DW802	642 300 000		4	25	250		26	4	100		4	B5	T
DW1508	642 310 000		4	7.5	150		4	1.5	100		1.5	B5	T
DW4011	642 310 000		4	5.0	200		5.0	3.6	150		3.6	B5	T
DW4023	642 310 000		4	3.0	150		2.5	1.75	100		1.7	B5	T
DX2	642 300 000		2	3	150		3.5	1.4	100		1.4	B4	T
DY30	*2* 0*0 3*0	D ₁	1.25						D			A08	D
DY80	23* 232 *32	D ₁	1.25						D			B9A	D
DY86	32* 323 *23	D ₁	1.4						D			B9A	D
DY87	23* 232 *32	D ₁	2.4						D			B9A	D
DY604	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
DZ2	542 300 000	A	4	1	200	100	4	0.7	100	100	4	B4	P
E	642 300 000		4	9	200		1.7	0.4	100		0.4	B4	T
E	264 300 000		3	22.5	125		6.5		125			UX4	T
E4	642 300 000		4	16	200		12	1.8	100			B4	T
E4D	892 300 000		4				30		REC		15mA	B4	RR
E4F	892 300 000		4				60		REC		20mA	B4	RR
E4H	802 300 000		4				125		REC		30mA	B4	R
E4K	003 200 000	D ₁	4				60		REC		20mA	B5	R
E4L	003 200 000	D ₁	4				120		REC		30mA	B5	R
E20V	023 100 080		20				60		REC		20mA	8SC	R
E80CC	641 337 412		6.3	5.5	250		6	2.8	100		2.5	B9A	TT
E80F	501 236 014		6.3	1.65	250	100	3	1.85	150	100	1.8	B9A	P
E80L	041 230 651		6.3	5.2	200	200	30	9	100	100		B9A	P
E81L	041 230 651		6.3	3.0	200	200	20	11	100	100		B9A	P
E83F	541 236 **1		6.3	2.0	200	125	10	9	100	125	12.0	B9A	P
E87L	041 230 651		6	6	250	150	36	10	100	100		B9A	P
□ E88CC	641 237 410		6.3	1.2	90		15	12.5	100		13.0	B7G	TT
E90CC	672 344 100		6.3	2.1	100		8.5	6	100		8.5	B7G	TT
E91H	412 365 100		6.3	5	125	75	0.5	0.6	125	75	0.6	B7G	H
E92CC	672 344 100		6.3	1.7	150		8.5	6	100		5.6	B7G	TT
E180CC	641 227 413		6.3	1.9	150		8.5	6.3	100		7.8	B9A	TT
E180F	141 23* 615		6	1.5	200	150	10	15	No Data Available			B9A	P
E181CC	641 227 413		6.3	3	150		8.5	4.7	100		5.6	B9A	TT
E235	642 300 000		2	7.5	150		13	3	100		3	B4	T

□ See note on Page 5 regarding Insulation Testing.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
E405	642 300 000		4	32	250		20	2	100		2	B4	T
E406	642 300 000		4	34	250		8	2.3	100		2.3	B4	T
E406N	642 300 000		4	34	250		8	2.3	100		2.3	B4	T
E408	642 300 000		4	30	400		26	2	100		2	B4	T
E408N	642 300 000		4	36	400		30	2.7	100		2	B4	T
E409	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
E409N	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
E410	642 300 000		4	28	400		30	6	100		6	B4	T
E414	642 310 000		4	6	150		6.5	2	100		2	B5	T
E414	642 300 000		4	15	150		8	1.3	100		1.3	B4	T
E415	642 310 000		4	8	200		6	1.4	100		1.4	B5	T
E415	264 130 000		4	8	200		6	1.4	100		1.4	UX5	T
E420	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
E422	642 300 000		4	16	250		12	5	100		5	B4	T
E424	642 310 000		4	2.5	200		6	2.4	100		2.4	B5	T
E424R	612 300 000	G ₁	4	5	200		6	1.6	100		1.6	B4	T
E424N	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
E425	642 310 000		4	4.5	150		3	3	100		1	B5	T
E428	642 310 000		4	3.0	200		6.0	2.4	100		2.4	B5	T
E430	642 310 000		4	3	150		4	2	100		2	B5	T
E430N	642 310 000		4	15	200		15	3	100		3	B5	T
E435	642 310 000		4	1.5	200		3	1.0	100		3	B5	T
E438	642 310 000		4	3	200		2.5	1.5	100		1.5	B5	T
E441N	652 300 000	G ₁	4	0	100	0	1.7	1	100		1	B4	T
E442	542 310 000	A	4	1.3	200	60	1.5	0.9	200	60	0.9	B5	P
E442S	542 310 000	A	4	2	200	60	4	1	100	60	1	B5	P
E443H	642 350 000		4	15	250	250	36	2.8	100	PenLF	2.8	B5	P
E443N	642 350 000		4	40	400	200	30	1.9	100	100	1.9	B5	P
E444	258 413 000	A	4	3	200	90	4	3	100	90		UX6	DP
E444N	258 413 000	A	4	3	100	90	4	3	100	90	3	UX6	DP
E444S	642 310 000	D ₁	4	3.5	200		6	2	100		2	B5	DT
E445	542 310 000	A	4	2	200	100	6	1	100	100	1	B5	P
E446	542 310 000	A	4	2	200	100	3	2.3	100	100	2.3	B5	P
E447	542 310 000	A	4	2	200	125	4.5	2.3	100	100	2.3	B5	P
E448	164 552 300	G ₁	4	1.5	200	125	3	0.58	100	100		C7	P
E449	165 452 300	G ₁	4	2	200	75	3	1.8	100	75	1.8	C7	P
E451	642 350 000		4	0	400	250	17		100	150	2.4	B4	P
E452T	542 310 000	A	4	2	200	100	3	2	100	100	2	B5	P
E452T	254 130 000	A	4	2	200	100	3	2	100	100	2	UX5	P
E453	045 231 600		4	15	250	250	24	2.5	100	PenLF	2.5	B7	P
E454	216 809 300	G ₁	4	3.5	200		3.5	1.6	100		1.6	UX7	DDT
E455	542 310 000	A	4	1.5	200	100	3	2	100	100	2	B5	P
E455	254 130 000	A	4	1.5	200	100	3	2	100	100	2	UX5	P
E462	542 310 000	A	4	2	200	100	3	2	100	100	2	B5	P
E463	045 231 600		4	22	250	250	36	2.7	100	PenLF	2.7	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
E499	642 310 000		4	1.6	200		0.2	4	150		4	B5	T
E501D	265 113 000	G	3.5	2.5	250	125	6.5	3.5	100	100		UX6	P
E501R	265 113 000	G	6.3	2.5	250	125	6.5	3.5	100	100		UX6	P
E504D	265 413 000		5	13.5	250	200	40	3.5	100	100		UX6	P
E504P	265 413 000		6.3	13.3	250	200	40	3.5	100	100		UX6	P
E543	045 231 600		4	15	250	250	24	2.5	100	PenLF	2.5	B7	P
E646	020 080 310		26				120		REC		30mA	A08	R
E703	642 300 000		7.5	100	400		30	1	100		1	B5	T
E851	030 908 020		5				120		REC		30mA	A08	RR
E1137	366 446 622		6	2.3	250		32	16	No Data Available			B9G	T
E1148	020 000 310	G ₁ A	6	5.5	250		14	3.0	100		3.0	A08	T
E1192	021 450 310	A	6	11	250	150	30	3.5	100	100	3.5	A08	P
E1242	265 114 130		6	30	300	250	25	1.9	100	150	3	B9G	P
E1323	020 000 310	A G ₁	6	3	100		25	6.7	100		6	A08	T
E1413	265 024 300		1.4	1	90	75	3.5	0.9	80	75	0.9	B7G	P
E1478	642 300 000		4	1	100			6.9	100		6.0	B5	T
E1484	208 564 300		1.4	1	90	90	2.7	0.63	80	90	0.6	B7G	DP
E1489	241 657 143		6		350	250	21	3.9	100	100	3.9	B9G	PP
E1517	412 361 500		6	2.5	200	200	8	2.5	100	100	2.5	B7G	P
E1518	412 361 500		6	2	250	250	10	7.5	100	150	5	B7G	P
E1606	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
E1624	6*2 364 100		6	8.5	250		10.5	2.2	100		2.2	B7G	T
E1654	026 510 310	G ₁	6	1.5	200	200	10.9	8.5	100	150	8	A08	P
E1662	412 360 500		6	12	250	250	20	2.6	100	PenLF	2.6	B7G	P
E1677	002 300 000	D ₁	2				15		REC		10mA	B4	R
E1678	026 510 310	G ₁	13	3	250	100	7.6	1.5	100	100	1.5	B7G	P
E1681	026 540 310		15	13	175	175	35	2.5	100	100	2.5	A08	P
E1682	020 800 310		30				120		REC		30mA	A08	R
E1706	256 051 463		6	8	250	175	80	13	100	100	10	B9G	P
E1709	064 471 230		6	2	250		2	1.35	150		1.3	A08	TT
E1733	009 **8 230		6				60		REC		20mA	B8B	RR
E1736	265 004 130		6	4.4	250	250	40	10.5	100	PenLF	10.0	B8B	P
E1740	209 008 130		6				30		REC		15mA	B8B	RR
E1751	192 310 800		6				5		D			B7G	RR
E1780	009 **8 230		4				30		REC		15mA	B8B	RR
E1787C	316 541 120		6	9	250	175	50	8	100	100	8	B9G	P
E1794	265 104 130		19	3	250	75	2.5	2.8	100	60	2.8	B8B	P
E1795	280 008 130		50				120		REC		30mA	B8B	R
E1796	265 004 130		80	9.5	175	175	70	10	100	100	9	B8B	P
E1809	265 104 136		6	3	250	100	8	2.8	100	100	2.8	B8B	P
E1813	264 198 130		19	3	250		1	1.2	100		1.2	B8B	DDT
E1816	364 526 300		1.4	7	90	75	7.4	1.575	80	60	1.5	B7G	P
E1835	005 231 600	G ₁	13	4.4	250	250	40	10.5	100	PenLF	9	B7	P
E1838	264 198 130		6	3	250		1	1.2	100		1.2	B8B	DDT
E1848	264 *98 130		6	2	200		10	1.4	200		1.4	B8B	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
E1884	002 300 000	D ₁	2				5		D			B4	R
E1912	412 389 600		6	3	250		1	1.2	100		1.2	B7G	DDT
E1935	241 657 143		6	26	250	200	30	3.9	100	100	3.9	B9G	PP
E1938	802 309 100		6				30		REC		15mA	B7G	RR
E1969	542 376 400		6	$\begin{Bmatrix} 2 \\ 1 \end{Bmatrix}$	$\begin{Bmatrix} 100 \\ 250 \end{Bmatrix}$	$\begin{Bmatrix} 75 \\ 75 \end{Bmatrix}$	$\begin{Bmatrix} 5 \\ 5.3 \end{Bmatrix}$	$\begin{Bmatrix} 2.2 \\ 2.2 \end{Bmatrix}$	$\begin{Bmatrix} 100 \\ 250 \end{Bmatrix}$	$\begin{Bmatrix} 60 \\ 75 \end{Bmatrix}$	$\begin{Bmatrix} 2.8 \\ 2.8 \end{Bmatrix}$	B7G	TH
E1976	412 361 500		19	2.5	200	200	8	2.5	100	150	2.5	B7G	P
E1984	412 36* 500		6	5.5	250	250	35	10	100	PenLF	9	B7G	P
E1985	281 008 300		40				60		REC		20mA	B7G	R
E1987	412 36* 500		40	8	175	150	50	10	100	100	9	B7G	P
E1994	471 461 230		13	8	250			2.6	100		2.6	A08	TT
E2004	*2* 0*0 3*0	D ₁	1.25				5		D			A08	R
E2020N	642 310 000		20	18	200		15	1.6	100		1.6	B5	T
E2047	412 361 500		12.5	2.5	200	200	8	2.5	200	200	2.5	B7G	P
E2122	902 308 100		6				30		REC		15mA	B7G	RR
E2128	241 657 143		19	16.5	250	150	30	3.9	100	100	3.9	B9G	PP
E2134	412 36* 500		6		175	175	55	9.5	100	100	7	B7G	P
E2153	412 36* 500		13	8	175	150	50	10	100	100	9	B7G	P
E2178	**1 23* **8		20				120		REC		38mA	B9A	R
E2179	*41 23* *51	A	20	12	150	150	50	8.5	100	100	7	B9A	P
E2185	026 040 310		6	8	250		9	2.6	100		2.6	A08	T
E2223	*** 23* **8		25				120		REC		30mA	B9A	R
E2256	**1 23* **8		20				120		REC		40mA	B9A	R
E2382	021 *4* 350	A	52		150	150	100	16	No Data Available			A08	P
EA40	200 800 130		6				5		D			B8A	R
EA50	123 000 000	D ₁	6						D		6.3mA	B3G	D
EA76	281 380 000		6				5		D			B5B	R
EAI11	023 010 000	D ₁	6.3				60		REC		20mA	F8	R
EAA11	812 300 190		6.3				5		D			F8	RR
EAA91	182 311 900		6.3				5		D			B7G	DD
EAA901	182 310 900		6.3						D			B7G	DD
EAB1	023 110 890		6						D			8SC	DDD
EABC80	191 238 146		6	3	250		1.0	1.2	100		1.3	B9A	DDDT
EAC91	812 314 600		6	3.2	200		7.5	2.8	100		2.8	B7G	DT
EAFF21	265 814 130		6.3	2	250	100	6	2.8	100	100		B8G	P
EAFF41	268 154 130		6	4	250	100	5.0	1.8	100	100	1.8	B8A	DP
EAFF42	268 154 130		6	2	250	100	5	1.8	100	100	1.8	B8A	DP
EB4	023 180 910		6						D			8SC	DD
EB11	802 301 190		6						D			F8	DD
EB34	029 180 310		6				5.0		D			A08	DD
EB40	208 090 130		6						D			B8A	DD
EB41	201 908 130		6				5		D			B8A	RR
EB91	192 310 800		6						D			B7G	DD
EBC1	023 198 060	G ₁	6	7	250		4	2	100		2	8SC	DDT
EBC3	023 189 060	G ₁	6	5.5	250		5	2	100		2	8SC	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EBC11	892 301 460		6	8	250		5	2.2	100		2	F8	DDT
EBC21	264 *89 130		6	5.5	250		5	2	100		2	B8B	DDT
EBC30	023 189 060	G ₁	6	4.3	200		4	2	150		2	8SC	DDT
EBC33	026 890 310	G ₁	6	5.5	250		5	2	100		2	A08	DDT
EBC41	264 098 130		6	3	250		1	1.3	100		1.2	B8A	DDT
EBC51	389 060 420		6.3	7.5	250		70	4.0	100		4.0	B9G	DDT
EBC80	641 238 090		6.3	3.0	250		1.0	1.2	100		1.2	B9A	DDT
EBC81	641 238 09*		6	3	250		1.0	1.2	250		1.2	B9A	DDT
EBC90	412 389 600		6	3	250		1	1.2	150		1.2	B7G	DDT
EBC91	412 389 600		6	2	250		1.2	1.6	200		1.6	B7G	DDT
EBF1	023 198 560	G ₁	6	3	250	125	9	1.1	100	100	1.1	8SC	DDP
EBF2	032 198 560	G ₁	6	2	250	100	5	1.8	100	PenLF	1.8	8SC	DDP
EBF11	982 361 450		6	2	250	100	5	1.8	100	100	1.8	F8	DDP
EBF15	982 361 450		6	2	250	100	12	5	100	100	5	F8	DDP
EBF21	268 954 130		6	3.2	250	100	7.5	2.2	100	100		B8G	DDP
EBF32	026 895 310	G ₁	6	2	250	100	5	1.8	100	100	1.8	A08	DDP
EBF35	216 589 130	G ₁	6	2	250	100	5	1.8	100	100	1.8	A08	DDP
EBF80	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
EBF81	541 236 891		6.3	2	250	75	6.7	1.1	100	100		B9A	DDP
EBF89	541 236 891		6.3	2	250	100	9	3.8	100	100		B9A	DDP
EBF171	892 541 360		6.3	3.2	250	80	6	1.8	100	80		B8B	DDP
EBL1	023 189 560	G ₁	6	6	250	250	36	9.5	100	PenLF	9.0	8SC	DDP
EBL21	264 598 130		6	6.0	250	250	36	9.0	100	PenLF	9.0	B8B	DDP
EBL31	026 895 310	G ₁	6	6	250	250	36	9.5	100	PenLF	9.0	A08	DDP
EBL71	264 589 130		6	5	250	250	44	9.5	250	200	9.5	A08	DDP
EC2	023 100 060	G ₁	6	5.5	250		6	2.5	100		1.5	8SC	T
EC21	206 401 003		6	4	250		5	2.7	100		2.5	B9G	T
EC31	026 040 310		6	16	250		20	3.2	100		3.2	A08	T
EC40	244 644 130		6	1.5	275		15	12	100		9	B8A	T
EC41	206 040 130		6	5.5	175		20	4.5	125		4.5	B8A	T
EC52	241 600 003		6	2.6	250		10	6.5	100		6.5	B9G	T
EC53	123 000 000	A G ₁	6	3.3	200		7.5	2.9	100		2.9	B3G	T
EC54	244 664 413		6	1.5	250		10	9	100		7	B9G	T
EC70	462 603 160		6	2	100		13	5.5	100		5.5	B8D	T
EC80	441 230 446		6	1.5	250		15	12	150		10	B9A	T
EC81	401 230 060		6	2	150		30	5.5	100		3	B9A	T
EC84	414 464 234		6.3	1.1	125		16	10	100		10	B9A	T
EC90	6*2 364 100		6	8.5	250		10.5	2.2	100		3.3	B7G	T
EC91	412 314 600		6	2	250		6	8.5	200		8.0	B7G	T
EC92	602 304 100		6	2.0	250		10.0	5.0	100		5.0	B7G	T
EC93	642 314 600		6	4	100		16.0	8.0	100		8	B7G	T
EC94	642 314 600		6.3	2.5	100		16	6.6	100		6.6	B7G	T
ECC31	027 446 310		6	4.6	250		6	2.3	100		2.3	A08	TT
ECC32	461 471 230		6	4.6	250		6	2.3	100		2.3	A08	TT
ECC33	461 471 230		6	4	250		9	3.8	100		3.6	A08	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ECC34	461 471 230		6	16	250		10	2.2	100		2.2	A08	TT
ECC35	461 471 230		6	2.5	250		2.3	2	100		2	A08	TT
ECC40	274 164 130		6	5.2	250		6	2.7	100		2.7	B8A	TT
ECC81	741 226 413		6	2	250		10	5.5	150		5	B9A	TT
ECC82	741 226 413		6	8.5	250		10.5	2.2	100		2	B9A	TT
ECC83	741 226 413		6	2.0	250		1.2	1.6	150		1.6	B9A	TT
ECC84	147 234 116		6	1.5	90		12	6.0	100		6.0	B9A	TT
ECC85	741 236 410		6	2.3	250		10	5.9	100		5	B9A	TT
ECC91	672 344 100		6	0.85	100		8.5	5.3	100		5.3	B7G	TT
				3.0	150		5.0	4.5	100		5.3		
ECC180	641 237 410		6.3	2.0	150		9	6.4	100		6.3	B9A	TT
ECC801	641 227 413		6.3		250		10	5.5	100			B9A	TT
ECC802S	641 227 413		6.3	8.5	250		10.5	2.2	100		2.0	B9A	TT
ECF1	023 164 570	G ₁		3.0	150	0	8.0	2.2	150	60	2.6	B8C	TP
				2.0	250	100	5.0	2.5	100	100	2.5		
ECF12	642 371 450		6	0	100	0	11.0	3.0	100	60	3.0	F8	TP
				2	250	100	5.0	2.0	100	100	2.0		
ECF80	645 237 114		6	2	100	0	14	5	100	60	5	B9A	TP
				3	250	200	7	5.5	150	150	5		
ECF82	645 237 114		6	1.0	150		18.0	8.5	100	60	7.0	B9A	TP
				1.0	250	100	10.0	5.2	100	100	5.0		
ECH2	023 164 570	G ₁	6	1	100		9.5	5.5	100	60	5.0	B8C	TH
				2.5	250	100	3.25		200	100	3.0		
ECH3	023 164 570	G ₁	6	2	100		5	2.4	100	60	2.8	B8C	TH
				2	250	100	4.8	2.5	200	100	2.5		
ECH4	123 614 570	G ₁	6	2	100		6.3	2.7	100	60	2.2	B8C	TH
				2	250	100	6.5	2.6	100	PenLF	2.6		
ECH4G	127 546 310		6.3	2	100		6.3	2.7	100	60	2.2	A08	TH
				2	250	200	6.5	2.6	100	PenLF	2.6		
ECH11	642 371 450		6	2.0	100	0	5.0	2.4	100	60	2.8	F8	TH
				2.0	250	100	4.7	2.5	200	100	2.5		
ECH21	276 454 131		6	2	100		6.25	2.4	100	60	3.2	B8B	TH
				2	250	90	5.3	2.2	100	90	2.2		
ECH33	027 546 310	G ₁	6	2	100		5	2.4	100	60	2.8	A08	TH
				2	200	100	3	2.8	100	100			
ECH35	027 546 310	G ₁	6	2	100		5.4	2.2	100	60	2.8	A08	TH
				2	250	100	5	2.4	100	100	1.2		
ECH41	276 454 130		6	2	100		5	2.2	100	60	2.2	B8A	TH
				2	250	100	3	2	100	100	2.4		
ECH42	276 454 130		6	2	100		5	2.2	100	60	2.8	B8A	TH
				2	250	100	8	2	100	100	3.2		
ECH43	276 454 130		6	2	100		5	2.2	100	60	2.2	B8A	TH
				2	250	100	8	2	100	100	1.9		
ECH71	276 454 431		6	2	250		2		100	60		B8B	TH
				2	250	100	3	0.75	100	100			
ECH80	541 23* 674		6.3	2	250	75	3	0.75	100	80	0.75	B9A	TH
ECH81	541 237 164		6	3	100		5	2.3	100	60	2.3	B9A	TH
				2	250	100	6.5	2.4	150	100	2.4		

† See note on Page 5 regarding Back Emission.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ECL11	452 371 460		6	{ 2.5 6.0	250 250	0 250	2.0 36	2.0 9.0	100 100	60 150	2.0 7.0	F8	TP
ECL80	641 237 154		6	{ 2.3 8.0	100 200	0 200	4 17.5	1.4 3.3	100 100	60 PenLF	1.4 3.0		
ECL81	451 237 614		6.3	{ 1.5 5.5	200 250		0.5 36	1.2 8.7	100 100	60 100	1.2	B9A	TH
ECL82	414 237 516		6.3	{ 1.0 16	175 200		3.7 35	2.4 6.4	100 100	60 100	2.5 6		
ECL83	641 237 154		6.3	{ 1.5 9.5	200 175		1.6 30	2.5 5.5	100 100	60 100	2.5 5.0	B9A	TP
ECL113	267 454 130		6	{ 1.0 3.5	150 250	0 250	2 25	1.6 8.5	100 100	60 150	1.6 8.5		
ED111	266 104 430		6.3	5	200		40	8	No Data Available			B8A	T
EDD11	742 301 460		6	8.0	200		3.5		200		3.5	F8	TT
EDD111	742 311 460		6	8.0	250		9.0	2.3	100		2.3	F8	TT
EE50	256 501 403		6.3	3.0	250	250	10	14	250	150	10.0	B9G	P
EEL71	274 554 631		6.3	6.5	250	250	24	6.5	100	100		B8G	PP
EEP1	023 180 560	G ₁	6.3	2.5	250	150	8	17	No Data Available			8SC	DP
EEP71	023 110 560	G ₁	6	3	225	100	8	2.2	100	100		8SC	P
EF1	023 110 560	G ₁	6	2	250	100	3	2.3	100	100	2.3	8SC	P
EF2	023 110 560	G ₁	6	2	250	100	4.5	2.2	100	100	2.2	D8SC	P
EF3	023 110 560	G ₁	6	2.5	250	100	8	1.8	100	100	1.8	8SC	P
EF5	023 110 560	G ₁	6	3	250	100	8	1.7	100	100	1.7	8SC	P
EF6	023 110 560	G ₁	6	2	250	100	3	2	100	100	2	8SC	P
EF7	023 110 560	G ₁	6	1.5	250	100	3	2.1	100	100	2.1	8SC	P
EF8	023 111 560	G ₁	6	2.5	250	250	8	1.8	100	PenLF	1.8	8SC	P
EF9	023 110 560	G ₁	6	2.5	250	100	6	2.2	100	100	2.2	8SC	P
EF11	602 301 450		6	2	250	100	6	2.2	100	100	2	F8	P
EF12	602 301 450		6	2	250	100	3	2.1	100	100	2	F8	P
EF12 spec.	602 301 450		6.3	2	250	100	3	1.7	100	100	1.5	F8	P
EF13	612 301 450		6	2	250	100	4.5	2.3	100	100	2	F8	P
EF14	612 350 140		6	4.5	200	200	12	7	100	150	6	F8	P
EF15	612 301 450		6	2	250	100	12	5.5	100	100	5	F8	P
EF22	265 104 130		6	2.5	250	100	6	2.2	100	100	2.2	B8B	P
EF25	023 110 560	G ₁	6	2	250	100	5	1.8	100	100	1.8	8SC	P
EF36	026 510 310	G ₁	6	2	250	100	3	1.8	100	100	1.8	A08	P
EF37	026 510 310	G ₁	6	2	250	100	3	1.8	100	100	1.8	A08	P
EF37A	026 510 310	G ₁	6	2	250	100	3	1.8	100	100	1.8	A08	P
EF38	126 510 310	G ₁	6	2.5	250	250	8	1.8	100	PenLF	1.8	A08	P
EF39	026 510 310	G ₁	6	2.5	250	100	6	2.2	100	100	2.2	A08	P
EF40	26* 145 130		6	2	250	150	3	1.8	100	150	1.8	B8A	P
EF41	261 154 130		6	2.5	250	100	6	2.2	100	100	2.2	B8A	P
EF42	260 154 130		6	2	250	250	10	9.5	100	PenLF	8.0	B8A	P
EF43	260 154 130		6	2	250	150	15	6.4	100	150	6	B8A	P
EF44	260 145 130		6.3	2	250	150	3	1.8	100	150	1.8	B8A	P
EF50	256 101 403		6	1.55	250	250	10	6.5	100	PenLF	6.0	B9G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EF51	261 154 130		6	2	250	250	14	9.5	100	PenLF	9.0	B8B	P
EF52	261 154 130		6	2	250	250	10	10	100	150	8	B8G	P
EF53	256 101 403		6	2	250	250	10	6.5	100	150	6.5	B9G	P
EF54	265 114 113		6	1.7	250	250	10	7.7	100	PenLF	7.0	B9G	P
EF55	256 101 403		6	4	250	150	10	7	100	100	6	B9G	P
EF70	412 163 510		6	2	100	100	3	2.5	100	100	2.5	B8D	P
EF71	412 163 510		6	2	100	100	13	5.5	100	100	4.5	B8D	P
EF72	412 163 510		6	1.4	100	100	7	5	100	100	5	B8D	P
EF73	412 653 160		6	2	100	100	7.5	5.5	100	100	5	B8D	P
EF74	412 653 160		6.3	1.4	100	100	7	3.1	100	100	3	B8D	P
EF80	141 230 651		6	2	175	175	10	7.2	100	100	6	B9A	P
EF81	541 236 000		6.3	2.5	250	125	6	2.2	100	100		B9A	P
EF82	*41 230 651		6	4.5	250	250	40	11	100	150	9	B9A	P
EF83	501 236 014		6.3	1.6	250	50	4	1.6	100	100	2.0	B9A	P
EF85	141 230 651		6	2	250	100	10	6	150	100	5	B9A	P
EF86	501 236 014		6	2	250	150	3	4.3	100	100	1.8	B9A	P
EF87	501 236 014		6.3	2.0	250	100	3.3	1.9	100	100		B9A	P
EF88	501 236 014		6.3	2.0	250	100	7	2.1	100	100		B9A	P
EF89	041 230 651		6	2.0	250	100	9.0	3.6	250	100	3.6	B9A	P
†EF91	412 361 500		6	2 1.5	250 200	250 150	10 4	7.65 6.4	100 100	PenLF PenLF	5 5	B7G	P
EF92	412 361 500		6	2.5	250	200	8	2.5	100	PenLF	2.5		
EF93	412 365 100		6	1	250	100	11.6	4.5	150	100	4	B7G	P
EF94	412 365 100		6	1.0	250	150	10.6	5.2	100	150	5.2	B7G	P
EF95	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
EF96	412 365 100		6	1.5	250	150	6.5	5.0	100	100	5.0	B7G	P
EF111	612 350 140		6.3	2	250	75	6	2.2	No Data Available			F8	P
EF112	612 350 140		6.3	2	250	100	3	2.1	100	100		F8	P
EF172	112 540 360		6.3	2	250	100	5	3	100	100		B8A	P
EF174	112 540 360		6.3	3.5	200	200	12	9	100	100		B8A	P
EF175	112 540 360		6.3	2.1	250	100	12	4.5	100	100		B8A	P
EF190	412 365 100		6.3	2.0	200	150	9.5	6.2	100	100		B7G	P
EF410	26* *54 130		6.3	2	250	100	6	2.7	100	100		B8A	P
EF800	141 230 651		6.3	2	175	175	10	7.2	100	100		B9A	P
EF802	141 23* 651		6.3	1.8	175	175	12	8	100	100		B9A	P
EF804	101 230 654		6.3	2	250	150	3	2	100	100		B9A	P
EF804S	101 230 654		6.3	2	250	150	3	2	100	100		B9A	P
EF805S	141 230 651		6.3	1.8	250	75	8	5.7	100	80		B9A	P
EFF50	265 414 573		6	2	250	200	6	8	100	PenLF	7	B9G	PP
EFF51	265 414 573		6	2	250	200	6	8	100	PenLF	7	B9G	PP
EFM1	023 114 560		6	2	250	100	1.3		No Data Available			85C	IP
EF20	256 145 130		6.3	2	250	200	5	12	100	100		B8G	P
EG420	802 300 000		4				120		REC		30mA	B4	R

(Appendix I.)

† See note on Page 5 regarding Back Emission.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EHI	023 145 560	G ₁	6	2	250	80	3	1.8	200	75	1.8	8SC	P
EH2	023 115 560	G ₁	6	3	250	100	4.2	1.4	100	100	1.4	8SC	P
EH90	412 365 100		6.3	1	100	30	1	1.1	No Data Available			B7G	H
EH900	412 365 100		6.3	0	150	80	1.0	1.1	100	90		B7G	H
EK1	123 164 570	G ₁	6	1.5	90		2		80			8SC	O
				8.5	250	75	1.6		100	75			
EK2	023 154 560	G ₁	6	2	250	75	2.8	1.8	100	60	2.1	8SC	O
EK3	023 154 560	G ₁	6	2	100	60	11	3.8	100	60	3.8	8SC	O
EK32	026 545 310	G ₁	6	2.0	250	75	1.5	1.5	100	60	2.1	A08	O
EK90	412 366 100		6	2	100		11	7	100		5	B7G	H
EL1	023 100 560	G ₁	6	18.5	250	250	32	2.6	100	PenLF	2.6	8SC	P
EL2	023 100 560	G ₁	6	18	250	250	32	2.8	100	PenLF	2.8	8SC	P
EL3	023 104 560		6	6	250	250	36	9	100	PenLF	9	8SC	P
EL3N	023 104 560		6.3	6	250	250	36	9	100	PenLF	8	8SC	P
EL3/375	023 104 560		6.3	6	250	250	36	9	100	PenLF	8	8SC	P
EL5/375	023 140 560		6.3	14	250	275	72	8.5	No Data Available			8SC	P
EL5	023 104 560		6	14	250	275	72	8.5	100	PenLF	8.5	8SC	P
EL6	023 104 560		6	4	250	250	72	14.5	100	PenLF	10	8SC	P
EL6 spec.	023 104 560		6.3	7	250	250	72	14.5	100	PenLF	10	8SC	P
EL8	023 104 560		6.3	7.5	250	250	20	5.5	100	PenLF		8SC	P
EL11	602 301 450		6	6	250	250	36	9	100	150	7	F8	P
EL11N	602 301 450		6.3	6	250	250	36	9	100	150	7	F8	P
EL12	602 301 450		6	7	250	250	72	15	No Data Available			F8	P
EL12 spec.	502 301 400	A ₁	6.3	19	400	350	42	10	No Data Available			F8	P
EL12/325	602 301 450		6.3	7	250	250	72	15	No Data Available			F8	P
EL12/375	602 301 450		6.3	7	375	250	72	15	No Data Available			F8	P
EL13	602 310 450		6.3	7.5	250	250	20	5.5	100	150	5	F8	P
EL20	265 104 130		6	34	300	300	12.5	3.7	100	100		B8B	P
EL22	265 004 130		6	7	250	250	44	9.5	100	PenLF	9	B8B	P
EL31	120 540 310	A	6	9	300	275	91	14	100	PenLF	10	A08	P
EL32	026 500 310	G ₁	6	18	250	250	32	2.8	100	PenLF	2.8	A08	P
EL33	026 540 310		6	6	250	250	36	9	100	PenLF	8	A08	P
EL34	126 540 310		6	13.5	250	250	75	11.0	100	100	8	A08	P
EL35	026 540 310		6	15.5	250	250	72	5	100	PenLF	5	A08	P
EL36	*2* 54* 310	A ₁	6	8.2	100	100	77	11	100	PenLF	10	A08	P
EL37	026 540 310		6	13.5	250	250	100	11	100	PenLF	10	A08	P
EL38	120 540 310	A	6	7	250	250	89	14.3	100	PenLF	10	A08	P
EL38N	120 540 310	A ₁	6	7	250	250	89	14.3	100	PenLF	10	A08	P
EL39	020 541 310	A ₁	6	23	175	125	45	6.5	100	100		A08	P
EL41	26* *54 130		6	7.0	250	250	36	10.0	100	PenLF	8	B8A	P
EL42	261 054 130		6	10.8	225	225	26	3.2	100	PenLF	3.2	B8A	P
EL43	260 154 130		6	3	250	250	36	10	100	PenLF	8	B8A	P
EL44	200 154 130	A	6	22.5	250	250	20	5	100	PenLF	5	B8A	P
EL50	023 114 500	A	6	14	250	275	72	8.5	100	PenLF	8	8SC	P
EL51	023 104 500	A	6		400	300	44	7	100	150	7	8SC	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EL53	023 104 560		6	7.7	400	250	24	8	100	150	7	8SC	P
EL54	023 140 560		6	12.2	300	300	55	13	No Data Available			8SC	P
EL60	216 005 413		6	14.5	250	250	67	9	100	100	8	B9G	P
EL70	412 163 510		6	9	100	100	31	2.2	100	90	2.2	B8D	P
EL80	541 230 600		6.3	6.5	250	250	36	10	100	150	9	B9A	P
EL81	*41 23* *51	A	6	38.5	250	250	32.0	4.6	100	100	2.2	B9A	P
EL81F	*41 23* *51	A ₁	6.3	38.5	250	250	32	4.6	100	100	2.2	B9A	P
EL82	*41 23* 6*5		6.3	10.4	175	175	54	9	100	100		B9A	P
EL83	541 23* 600		6	5.5	250	250	36	10	100	150	9	B9A	P
EL84	*41 23* 6*5		6	7.3	250	250	48	11.3	100	150	10.0	B9A	P
EL85	441 231 615		6	10.8	225	225	26	3.2	100	150	3.2	B9A	P
EL86	*41 23* 6*5		6.3	12.5	175	175	70	10	100	100		B9A	P
EL88	041 230 651		6.3	4.5	200	200	33	9.7	100	100		B9A	P
EL89	041 230 651		6.3	6	250	250	38	10.5	100	100		B9A	P
EL90	412 365 400		6	12.5	250	250	45	4.1	100	150	4	B7G	P
EL91	412 360 500		6	13.8	250	250	16	2.6	100	PenLF	2.6	B7G	P
EL95	412 365 400		6.3	9	250	250	24	5.0	100	100		B7G	P
EL150	602 301 450		6.3	17	350	250	95	6.5	No Data Available			F8	P
EL171	102 541 360		6.3	12	250	250	40	9	No Data Available			B8A	P
EL172	102 541 360		6.3	7	250	250	72	15	No Data Available			B8A	P
EL180	141 223 651		6.3	2.0	250	150	25	12	100	100		B9A	P
EL803	541 231 600		6.3	3.5	200	200	36	10	100	100		B9A	P
EL804	041 230 005	A ₁	6.3	12	175	175	70	10	100	100		B9A	P
EL820	*41 23* *51	A	6	38.5	250	250	32.0	4.6	100	150	4.0	B9A	P
EL821	*41 23* 651		6	4.5	250	250	40	11	100	150	10	B9A	P
EL822	*41 23* 651		6	2.5	250	150	40	13	100	100	10	B9A	P
EL11	423 174 560		6	20	250	250	15	1.7	100	PenLF	1.8	8SC	PP
ELP71	023 104 560		6	7	250	250	36	9	100	PenLF		8SC	P
ELP72	023 100 560	G ₁	6	17	250	250	36	2.5	100	PenLF		8SC	P
ELP73	023 100 560	G ₁	6	17	250	250	36	2.5	100	PenLF		8SC	P
EQ80	541 236 114		6	1	250	20	0.95	0.7	No Data Available			B9A	N
ER4	002 300 000	D ₁	4				3		D			B4	D
EW60	280 000 103		6				120		REC		30mA	B9G	R
EY51	023 000 000	D ₁	6						D			B3G	D
EY70	082 813 080		6				30		REC		17mA	B8D	R
EY80	**1 23* **8		6				120		REC		40mA	B9A	R
EY81	*** 23* **8	C	6.3				120		REC		40mA	B9A	R
EY82	**1 23* **8		6.3				180		REC		50mA	B9A	R
EY83	*** 23* **8	C	6.3						D			B9A	D
EY84	**1 23* ***	D ₁	6				120		REC		30mA	B9A	R
EY86	23* 232 *32	D ₁	6						D			B9A	R
EY87	23* 232 *32	D ₁	6.3						D			B9A	D
EY91	812 380 000		6				60		REC		20mA	B7G	R
EY92	002 360 100		6.3				60		REC		15mA	B7G	R
EYY13	230 238 090		6.3				120		REC		30mA	F8	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
EZ1	023 180 090		6				30		REC		15mA	8SC	RR
EZ2	023 180 090		6				30		REC		15mA	8SC	RR
EZ3	023 180 090		6				60		REC		20mA	8SC	RR
EZ4	023 180 090		6				60		REC		20mA	8SC	RR
EZ11	902 300 180		6				30-0		REC		15mA	F8	RR
EZ12	902 300 180		6				60-0		REC		20mA	F8	RR
EZ22	208 009 130		6				60		REC		20mA	B8B	RR
EZ33	028 090 310		6				60		REC		20mA	A08	RR
EZ35	028 090 310		6				30		REC		45mA	A08	RR
EZ40	280 *09 130		6				30		REC		25mA	B8A	RR
EZ41	280 009 130		6				30-0		REC		30mA	B8A	RR
EZ80	9*1 23* 8**		6				30.0		REC		35mA	B9A	RR
EZ81	8*1 23* 9**		6				60-0		REC		25mA	B9A	RR
EZ82	8*1 23* 8**		6-3				30		REC		15mA	B9A	RR
EZ90	802 309 100		6-3				30		REC		15mA	B7G	RR
EZ91	802 309 100		6-3				30		REC		15mA	B7G	RR
F5	642 300 000		4	40	300		40	6	100		6	B4	T
F10	642 300 000		4	15	300		30	5-5	100		5-5	B4	T
F100	642 350 000		4	16	250	250	42	2-5	100	PenLF	2-5	B5	P
F109	264 300 000		1-5	14-5	175		6-2	11-5	100		11	UX4	T
F109	642 300 000		1-5	14-5	175		6-2	11-5	100		11	B4	T
F203	264 300 000		2-5	56	275		36	2	100			UX4	T
F203	642 300 000		2-5	56	275		36	2	150		2	B4	T
F209(A)	642 310 000		2-5	21	250		5	1	100		1	B5	T
F209	642 300 000		2-5	21	250		5-2	0-97	100			B4	T
F209	264 300 000		2-5	21	250		5-2	0-97	100			UX4	T
F215	264 130 000		2-5	6	150		6-5	2	100		2	UX5	T
F215	642 310 000		2-5	6	150		6-5	2	100		2	B5	T
F242	265 130 000	G ₁	2-5	1-3	200	100	1-5	0-9	200	100	0-9	UX5	P
F410	642 300 000		4	15	275		13-5	2-8	100		2-8	B4	T
F443	642 350 000		4	30	400	200	45	3-2	100	100	3-2	B5	P
F443N	642 350 000		4	30	400	200	45	3-2	100	100	3-2	B5	P
F460	642 310 000		4	2	250		10	5-5	200		5-5	B5	T
F704	642 300 000		7-5	84	400		55	2-1	100		2-1	B5	T
F707	642 300 000		7-5	84	400		55	2-1	100		2-1	B4	T
F707	264 300 000		7-5	84	400		55	2-1	100		2-1	UX4	T
F708	264 300 000		7-5		400		30	1-6	100		1-6	UX4	T
FC2	645 230 700	G ₁	2	{ 0	150	50	2-0		80		0.4	B7	O
				{ 0	150	75	0-95	0-2	125	75	0-8		
FC2A	645 230 700	G ₁	2	{ 0	150	50	1-2		100		0-5	B7	O
				{ 0	150	50	0-7	0-27	100	75	1-0		
FC4	645 231 700	G ₁	4	{ 4	90	90	2-0	1	100	90	1-3	B7	O
				{ 4	250	90	1-6	1	250	90	1-5		
FC13	023 164 570	G ₁	13	{ 3	90	75	2	1-3	100		1-5	8SC	O
				{ 2	200	75	2-6	0-6	200	75	2-5		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
FC13c	645 231 700	G ₁	13	3 2	90 200	75 75	2.0 2.6	1.3	80 200	75 75	1.2 2.5	B7	O
FC141	207 640 530	G ₁	1.4		90	90	0.55		80	90		M08	H
FH2118	165 452 300	G ₁	20	2	200	80	3		100	75		C7	P
FW1	893 200 000		4				30		REC		15mA	B4	RR
FW3	892 300 000		4				60		REC		30mA	B4	RR
FW4/500	982 300 000		4 (5)				120		REC		30mA	B5	RR
FW4/800	982 300 000		4 (5)				60		REC		30mA	B5	RR
FY	642 350 000		4	10	250	250	32	5	100	PenLF	5	B5	P
FZ1	023 180 090		13				30		REC		15mA	8SC	RR
G	264 300 000		5	3	175		0.2		100		0.2	UX4	T
G/25L6	026 540 310		25	8.25	200	125	46	8	100	90	8	A08	P
G/50C5	142 345 600		50	7.5	125	100	49	7.5	100	90	6	B7G	P
G84	280 300 000		2.5				60		REC		20mA	UX4	R
G407	642 300 000		4	4	125		4	1.3	100		4	B4	T
G409	642 300 000		4	4	125		4	1.3	100		4	B4	T
G431	892 300 000		4				30		REC		15mA	B5	RR
G459	023 080 090		4				60		REC		20mA	8SC	RR
G460	892 300 000		4				60		REC		20mA	B4	RR
G470	892 300 000		4				30		REC		15mA	B4	RR
G504	892 300 000		4				15		REC		15mA	B4	RR
G660	023 190 080		6.3				30		REC		15mA	8SC	RR
G715	802 300 000		7.5				120		REC		30mA	B4	R
G1054	892 300 000		4				30		REC		15mA	B4	RR
G1064	892 300 000		4				30		REC		20mA	B4	RR
G1380	023 180 090		12				30		REC		15mA	8SC	RR
G1404	802 300 000		4				120		REC		30mA	B4	R
G1503	892 300 000		2.5				30		REC		15mA	B4	RR
G2004	892 300 000		4				60		REC		20mA	B4	RR
G2005	892 300 000		5				60		REC		20mA	B4	RR
G2080	802 310 000		20				60		REC		20mA	B5	R
G2504	892 300 000		4				60		REC		20mA	B4	RR
G4004	892 300 000		4				120		REC		30mA	B4	RR
G4100	802 300 000		4				120		REC		30mA	B4	R
G4120	892 300 000		4				60		REC		20mA	B5	RR
G4150	892 300 000		4				60		REC		20mA	B4	RR
G4180	892 300 000		4				120		REC		30mA	B4	RR
G4300	892 300 000		4				120		REC		30mA	B4	RR
G/5749	412 365 100		6	1.0	250	100	11	4.4	100	100	4.4	B7G	P
G/5750	412 366 400		6	2.0	100		11	7.0	100		6	B7G	H
G/6042	461 471 230		25	8	250		9	2.6	100		2.6	A08	TT
G/6059	041 230 651		6	3	250	100	2	1.22	100	100	1.2	B7G	P
G/6060	741 226 413		6	2.0	250		10	5.5	200		5.0	B9A	TT
G/6061	*41 230 651		6	13.0	300	225	35	3.75	100	150	3.7	B9A	P
G/6062	601 235 144		6	7.5	250	250	45	7.0	100	150	7.0	B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
G/6066	412 389 600		6	3-0	250		1-0	1-2	150		1-2	B7G	DDT
G/6100	602 364 100		6	8-5	250		10-5	2-2	100		3-0	B7G	T
G/6132	*41 230 651		6	4-5	250	250	40	11-0	100	150	9	B9A	P
G/6157	**1 23* ***	D ₁	6				120		REC		30mA	B9A	R
G/6158	744 226 413		6	4-6	250		6-0	2-3	100		2-3	B9A	TT
G/6180	461 471 230		6	8	250		9	2-6	100		2-6	A08	TT
G/6443	**1 23* ***	D ₁	6				120		REC		33mA	B9A	R
G/6516	412 360 500		6	12-5	250	250	16	2-6	100	PenLF	2-6	B7G	P
GGI	288 009 930		4				30		REC		15mA	B8B	RR
GN24	892 300 000		4				30		REC		15mA	B4	RR
GR4	892 300 000		4				120		REC		30mA	B4	RR
□ GT1C	642 310 000		4		200		48	3K	No Data Available			B5	Thyratron
GY11	333 022 200	D ₁	2-5				30		REC		15mA	F8	R
GZ30	020 908 030		5				60		REC		20mA	A08	RR
GZ31	020 908 030		5				120		REC		30mA	A08	RR
GZ32	030 809 020		5 (5-7)				60		REC		50mA	A08	RR
GZ33	030 809 020		5				120		REC		30mA	A08	RR
GZ34	*30 809 020		5				120		REC		30mA	A08	RR
GZ40	28* **9 130		5				30		REC		17mA	B8A	RR
GZ41	28* **9 130		5				30		REC		26mA	B8A	RR
H2	642 300 000		2	1	150		2-5	0-8	150		0-8	B4	T
H4	642 300 000		4	4	125		4	1-3	125		1-3	B4	T
H4D	809 231 600	G ₁	4	2-5	200		5-5	2-7	150		2-7	B7	DDT
HI2	642 300 000		2	1-3	100		0-6	1-0	100		1-2	Sm4	T
HI3	023 100 060	G ₁	13	4	200		6	2-5	100		2-5	A08	T
H20	642 310 000		20	1-6	200		0-2	1-0	100		1-0	B5	T
H30	000 231 600	G ₁	13	1-5	250		7-5	6-0	100		6	B7	T
H42	000 231 600	G ₁	4	2	250		1	1-5	200		1-7	B7	T
H63	020 600 310	G ₁	6	2	250		1	1-5	100		1-5	A08	T
HI41D	206 080 030	G ₁	1-4	1	90		0-1	0-25	80		0-25	M08	DT
H210	642 300 000		2	3	150		1-1	1-15	100		1-15	B4	T
H406D	542 300 000	A	4	1-5	175	75	4	0-8	100	80		B4	P
H407 spec.	642 300 000		4	9	150		3-5	0-9	100		0-9	B4	T
H410D	642 300 000	A	4	1-5	175	75	3-5	0-8	100	75		B4	P
H412	642 300 000		4	9	125		5	1-2	125		1-2	B4	T
H607	642 300 000		6	1	100			0-45	100		0-45	B4	T
HI818D	542 310 000	A	20	2	200	100	3	2	100	100		B5	P
HI918D	542 310 000	A	20	2	200	60	4	1	100	60		B5	P
H2018D	542 310 000	A	20	2	200	60	4	1	100	60		B5	P
H2518D	542 310 000	A	20	2-5	225	110	3-5	2	100	100		B5	P
H2618D	542 310 000	A	20	2-5	250	100	5	2	100	100		B5	P
H4080D	542 310 000	A	4	1-5	200	75	4	2-5	100	100		B5	P
H4111D	542 310 000	A	4	2-5	225	100	3-5	2	100	100		B5	P
H4115D	542 310 000	A	4	2-5	225	100	3-5	2	100	100		B5	P
H4125D	542 310 000	A	4	2	200	100	6	1	100	100		B5	P

□ See note on Page 5 regarding Insulation testing.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
H4128D	542 310 000	A	4	2.5	225	100	3.5	2	100	100		B5	P
H4129D	542 310 000	A	4	2.5	250	100	5	2	100	100		B5	P
HAA91	182 310 900		12						D			B7G	DD
HABC80	811 239 146		19	3	250		1	1.2	100		1.3	B9A	DDDT
HAD	908 231 600	G ₁	13	2.5	200		3.3	2	150		2	B7	DDT
HBC90	412 389 600		12.5	3	250		1.0	1.2	100		1.2	B7G	DDT
HBC91	412 398 600		12.5	2	250		1.2	1.6	100		1.2	B7G	DDT
HCH81	541 237 464		12.6	2.5	100		4	2	100	60	2	B9A	TH
					225	90	3	0.65	100	90	0.65		
HD2	642 300 000		2	5	200		5	1	150		1	B4	T
HD2	682 390 000	G ₁	2	2.5	150		3.5	1.3	100			B5	DDT
HD14	036 080 200	G ₁	1.4	0	90		0.13	0.22	100		0.28	A08	DT
HD21	682 390 000	G ₁	2	1.5	150		1.8	1.5	150		1.5	B5	DDT
HD22	682 390 000	G ₁	2	3	150		1.8	1.5	100		1.5	B5	DDT
HD23	682 390 000	G ₁	2	1	125		1	1.0	125		1.0	B5	DDT
HD24	682 390 000	G ₁	2	1.5	150		0.8	1.0	100		1.4	B5	DDT
HF61	26* *54 130		6.3	2.6	250	100	6	2.2	100	100	2.2	B8A	P
HF62	260 154 130		6.3	2	250	250	10	9	100	PenLF	8	B8A	P
HF85	141 230 651		12.5	2.3	200	125	11.4	6.1	100	90		B9A	P
HF93	412 365 100		12.5	1	250	100	11	4.4	100	100	4.3	B7G	P
HF94	412 365 100		12.5	1	250	150	10.6	5.2	100	100	3.9	B7G	P
HF121	26* 054 130		12.5	3	200	125	7.2	2.3	100	100	2	B8A	P
HK90	412 366 100		12.5	2	100		11	7	100		5	B7G	H
HL2	642 300 000		2	1.5	150		2.2	1.5	150		1.5	B4	T
HL2	023 004 060		2	1.5	150		2.2	1.5	150		1.5	8SC	T
HL2K	642 300 000		2	1.5	150		2.2	1.5	150		1.5	B4	T
HL2S	023 004 060		2	1.5	150		2.2	1.5	150		1.5	8SC	T
HL3	206 040 030		2	1.5	125		0.5	1.5	125		1.5	M08	T
HL4	642 310 000		4	4.5	250		5	3.5	150		3.5	B5	T
HL4g	000 231 600	G ₁	4	4.5	250		5	3.5	150		3.5	B7	T
HL4gs	023 100 060	G ₁	4	4.5	250		5	3.5	150		3.5	8SC	T
HL13	023 100 060	G ₁	13	3.7	200		5	3.3	150		3	8SC	T
HL13	000 231 600	G ₁	13	2.75	200		6	3.5	150		4	B7	T
HL13c	000 231 600	G ₁	13	3.7	200		5	3.3	150		4	B7	T
HL13g	023 004 060	G ₁	13	5.5	250		6	2.5	150		2.5	8SC	T
HL13s	023 100 060	G ₁	13	3	200		6	3.5	150		3.5	8SC	T
HL21	642 300 000		2	3	150		1.75	1.5	125		1.5	B4	T
HL21DD	682 390 000	G ₁	2	2	150		2	1.3	125		1.3	B5	DDT
HL22(Mazda)	206 040 030		2	2	150		2	1.3	125		1.3	M08	T
HL22DD	206 080 930	G ₁	2	2	150		2	1.3	125		1.3	M08	DDT
HL23	206 040 030		2	1.5	150		1.5	1.2	100		1.2	M08	T
HL23DD	206 080 930	G ₁	2	1.5	125		0.6	1.2	100		1.2	M08	DDT
HL41	216 040 030		4	3.1	250		2.2	3.4	150		3.1	M08	T
HL41DD	216 090 830	G ₁	4	3.1	250		2.2	2.5	100		2.4	M08	DDT
HL42DD	216 090 830	G ₁	4	0.25	200		2.8	2.9	100		2.5	M08	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
HL84	*41 23* 6*5		30	12.5	175	174	70	10	100	100		B9A	P
HL90	412 365 400		19	12.5	250	250	45	4.1	100	150	4	B7G	P
HL92	142 345 600		50	7.5	125	125	49	7.5	100	100	7	B7G	P
HL94	142 345 600		30	6.7	100	100	43	9.2	100	100	9.2	B7G	P
HL133	216 000 030	G ₁	13	3.3	200		6	2.9	200		2.9	M08	T
HL133DD	216 090 830	G ₁	13	2.5	175		1.45	2.5	150		2.3	M08	DDT
HL134DD	216 080 930	G ₁	13	5	250		7	2.5	100		2.5	M08	DDT
HL135	023 100 060	G ₁	13	3	200		6	3.5	150		3.5	8SC	T
HL210	642 300 000		2	1	100		1.1	0.7	100		1.0	B4	T
HL410	642 300 000		4	6	150		1.2	0.83	150		0.83	B4	T
HL607	642 300 000		6	1	100			1	100		1	B4	T
HL1320	000 231 600	G ₁	13	3.3	200		6	3	150		3	B7	T
HLA1	642 310 000		4	1	200		5	8	200		7	B5	T
HLA2	642 310 000		4	2.5	200		6	5.5	150		5.5	B5	T
HLB1	642 300 000		2	3	150		2	1.5	100		1.5	B5	T
HL/DD1320	809 231 600	G ₁	13	3	200		4.3	1.9	100		1.9	B7	DDT
HM20	642 310 000		20	3.3	225		6	2.5	100		2.3	B5	T
HN309	641 237 154		12.6	2	250		2.8	2.2	100	60	2.0	B9A	TP
HP2	446 230 700		2	1	150	150	24	5.6	150	150	5.6		
† HP6	412 361 500		6	2	250	250	10	7.5	100	PenLF	5	B7G	P
				1.5	200	150	4	6.4	100	PenLF	5		
HP13	061 231 500	G ₁	13	1	250	100	8	3.5	250	100	3.5	B7	P
HP13s	023 110 560	G ₁	13	1	250	100	8	3.5	250	100	3.5	8SC	P
HP210	542 300 000	A	2	1.5	150	150	1.9	1.9	150	150	1.9	B4	P
HP210	041 230 500	A	2	1.5	150	150	1.9	1.9	150	150	1.9	B7	P
HP210C	041 230 500	A	2	1	150	150	1.9	1.9	150	150	1.9	B7	P
HP210nc	542 300 000	A	2	1	150	150	1.9	1.9	150	150	1.9	B4	P
HP210nc	041 230 500	A	2	1	150	150	1.9	1.9	150	150	1.9	B7	P
HP211C	041 230 500	A	2	1	150	150	2.6	1.7	150	150	1.7	B7	P
HP211c	542 300 000	A	2	1	150	150	2.6	1.7	150	150	1.7	B4	P
HP211	041 230 500	A	2	1	150	150	2.6	1.7	150	150	1.7	B7	P
HP215	542 300 000	A	2	1.5	150	80	1.5	1.2	150	75	1.2	B4	P
HP215	041 230 500	A	2	1.5	150	80	1.5	1.2	150	75	1.2	B7	P
HP415	041 231 500	A	4	2	250	100	8	2.7	100	100	2.7	B7	P
HP1018	160 152 300	G ₁	10	3	250	100	2.3	1.25	100	PenLF	1.25	C7	P
HP1118	160 152 300	G ₁	10	3	250	100	8.2	1.65	100	100	1.65	C7	P
HP2018	041 231 500	A	20	2	200	100	4	3.5	200	100	2.5	B7	P
HP2018	542 310 000	A	20	2	200	100	4	3.5	100	100	3.5	B5	P
HP2118	041 230 500	A	20	2	200	100	5	3.5	100	100	3.5	B7	P
HF2118	542 310 000	A	20	2	200	100	5	3.5	100	100	2.5	B5	P
HP4100	542 310 000	A	4	2	200	100	3	3.5	100	100	3.5	B5	P
HP4101	041 231 500	A	4	2	200	100	3.5	3.5	100	100	3.5	B7	P

† See note on Page 5 regarding Back Emission.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
HP4101	542 310 000	A	4	2	200	100	3.5	3.5	100	100	3.5	B5	P
HP4101c	542 310 000	A	4	2	200	100	3.5	2.8	100	100	2.8	B5	P
HP4101c	041 231 500	A	4	2	200	100	3.5	2.8	100	100	2.8	B7	P
HP4105	542 310 000	A	4	2	250	100	4.5	3	100	100	3	B5	P
HP4105	041 231 500	A	4	2	250	100	4.5	3	100	100	3	B7	P
HP4106	041 231 500	A	4	2	200	100	5	3.5	100	100	3.5	B7	P
HP4106	542 310 000	A	4	2	200	100	5	3.5	100	100	3.5	B5	P
HP4106C	041 231 500	A	4	2	200	100	5	3.5	100	100	3.5	B7	P
HP4106C	542 310 000	A	4	2	200	100	5	3.5	100	100	3.5	B5	P
HP4115	041 231 500	A	4	2	200	100	4.3	3.2	100	100	3.2	B7	P
HP4115	542 310 000	A	4	2	200	100	4.3	3.2	100	100	3.2	B5	P
HP4115c	542 310 000	A	4	2	250	100	4.5	3.2	100	100	3.2	B5	P
HP4115c	041 231 500	A	4	2	250	100	4.5	3.2	100	100	3.2	B7	P
HR1	2** 3** *00	A	0.6						D			B7G	R
HR2	112 311 100	D ₁	4				5		D			B7G	R
HR2	642 300 000		2	2	150		12	0.6	125		0.6	B4	T
HR2S	023 004 060		2	2	150		12	0.6	125		0.6	8SC	T
HR3	112 311 100	D ₁	4				15		REC		10mA	B7G	R
HR4	112 311 100	D ₁	4				30		REC		15mA	B7G	R
HR5	112 311 100	D ₁	4				30		REC		15mA	B7G	R
HR6	030 000 020	D ₁	4				60		REC		20mA	A08	R
HR7	020 000 030	D ₁	4				30		REC		15mA	A08	R
HR8	030 000 020	D ₁	4				30		REC		15mA	A08	R
HR9	0** 080 230	D ₁	4						D			A08	D
HR11	020 00 030	D ₁	4						D			A08	D
HR210	642 300 000		2	1.5	200		1	1.3	150		1.3	B4	T
HR406	642 300 000		4	3	200		1	1.5	150		1.5	B4	T
HR410	642 300 000		4	3	200		1	1.5	150		1.5	B4	T
HSD	809 231 600	G ₁	13	3	200		6.0	2.7	150		2.3	B7	DDT
HVRI	002 300 000	D ₁	2				5		REC		1.3mA	B4	R
HVR2	003 200 000	D ₁	4				3		REC		2.0mA	B4	R
HVR2A	003 200 000	D ₁	2 (2.5)				3		REC		2.0mA	B4	R
HVUI	002 300 000	D ₁	4				3		D			B4	R
HY24	264 300 000		2	45	175		20		100			UX4	T
HY61	254 130 000	A ₁	6	14	300	250	83	6.5	No Data Available			UX5	P
HY65	030 540 210	A ₁	6	45	350	200	63		100	100		A08	P
HY90	002 383 100		27.5				60		REC		25mA	B7G	R
HY113	264 030 000		1.4	4.5	50		0.4	0.25	No Data Available			UX5	T
HY115	364 520 000		1.4	1.5	50	20	0.03	0.06	No Data Available			UX5	P
HY125	364 520 000		1.4	3	50	50	0.9	0.3	No Data Available			UX5	P
HY615	020 000 310	A ₁ G ₁	6	35	300		20		100			A08	T
HY866	280 300 000		2.5				120		REC		30mA	UX4	R
HZ50	280 300 000		13				60		REC		20mA	UX4	R
IRV120/350s	023 180 090		4				60		REC		20mA	8SC	RR
IW2	893 200 000		4				30		REC		40mA	B4	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
IW3	892 300 000		4				60		REC		50mA	B4	RR
IW4/350	892 300 000		4				60		REC		40mA	B4	RR
IW4/500	893 200 000		4 (5)				60		REC		20mA	B4	RR
K4	892 300 000		4				120		REC		30mA	B4	RR
K23A	682 390 000	G ₁	2	5-5	150		2-5	1-4	100		1-4	B5	DDT
K23B	632 390 000	G ₁	2	1-5	150		1-4	1-2	150		1-2	B5	DDT
K24	265 130 000	G ₁	2-5	1-5	175	75	2	0-8	100	75	0-8	UX5	P
K27	264 130 000		2-5	4-5	90		3	1	80		1	UX5	T
K30A	642 300 000		2	3	150		1-5	0-8	150		0-8	B4	T
K30B	642 300 000		2	7-5	150		4	0-9	100		0-9	B4	T
K30C	642 300 000		2	1-5	150		2	1-4	100		1-4	B4	T
K30D	642 300 000		2	3	150		4	1-5	100		1-5	B4	T
K30E	642 300 000		2	4-5	150		2	1-5	100		1-5	B4	T
K30g	642 300 000		2	7	150		6	3-5	100		3-5	B4	T
K30K	642 300 000		2	1-5	150		2-2	1-4	100		1-4	B4	T
K33A	064 234 700		2	0	150		3		150			B7	TT
K33B	446 230 700		2	1-5	125		3	2-1	125		2-1	B7	TT
K40B	542 300 000	A	2	0	150	75	2	1-5	100	75	1-5	B4	P
K40N	542 300 000	A	2	0	150	90	2-5	1-4	100	90	1-4	B4	P
K40N	041 230 500	A	2	0	150	90	2-5	1-4	100	90	1-4	B7	P
K50M	041 231 500	A	2	5	125	125	3	1-5	100	100	1-5	B7	P
K50N	064 235 500	G ₁	2	1-5	125	60	2	1-4	125	60	1-4	B7	P
K70B	642 350 000		2	4-5	150	150	9-5	2-5	100	100	2-5	B5	P
K70D	642 350 000		2	2-4	125	150	5	4	100	100	4	B5	P
K77A	465 230 574		2	10-5	125	150	2-5	4	100	100	4	B9	PP
K77B	446 235 700		2	11-7	150	150	3-8		100	100		B7	PP
K80A	645 230 700	G ₁	2	0	150	50	2		80	60	0-4	B7	O
				0	150	75	0-95		125	75	0-8		
K80B	645 230 700	G ₁	2	0	150	150	2-1		100	60	0-1		
				0	150	150	0-7		100	75	1-0	B7	O
K435/10	642 300 000		4	3-0	300		50	5-0	100		5-0	B4	T
K450/50	642 300 000		4	50	400		120	5	100		5	B4	T
K1658	542 310 000	A ₁	7	25	400	225	50	3-2	No Data Available			B5	P
K1668	542 310 000	A ₁	7	25	400	225	50	3-2	No Data Available			B5	P
K1678	542 310 000	A ₁	7	25	400	225	50	3-2	No Data Available			B5	P
K1694	642 300 000		4	3-5	200		6	2-6	100		2-4	B4	T
KBC1	023 098 060	G ₁	2	4-5	150		2-5	1-0	100		1	8SC	DDT
KBC32	036 980 200	G ₁	2	0	100		2-4	1-2	100		1-2	A08	DDT
KCI	023 004 060		2	1-5	150		1-2	0-6	125		0-6	8SC	T
KC3	023 004 060		2	2-8	150		3	2-5	100		2-5	8SC	T
KC4	023 004 060		2	1-5	150		2-2	1-4	125		1-4	8SC	T
KC50	642 300 000		2	1	40		0-25	0-4	No Data Available			Sm4	T
KC51	642 300 000		2	2	40		1-25	0-5	No Data Available			Sm4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
KCF30	037 546 200	G ₁	2	1.0 2.5 0.5 5	100 125 90 90	0 80 60	3.7 1.5 3 1	1.6 0.9 1.5 0.9	100 100 80 100	60 75 60 60	1.7 0.9 1.5 0.9	A08 8SC	TP TH
KD50	652 300 000		2	2.8	40		1.8	0.56	No Data Available			Sm4	T
KDDI	023 074 460		2	0	90		0.8	0.8	80		0.8	8SC	TT
KE50	542 300 000	A	2	2	125	50	0.8	0.56	100	60	0.56	Sm4	P
KFI	050 412 300	A	2	1	125	150	3	1.8	125	150	1.8	C7	P
KF2	050 412 300	A	2	1	125	150	3	1.3	125	150	1.3	C7	P
KF3	023 010 560	G ₁	2	1	90	90	1	0.5	80	90	0.5	8SC	P
KF4	023 010 560	G ₁	2	1	90	90	1.2	0.7	80	90	0.7	8SC	P
KF7	023 004 500	A	2	1.5	90	90	1.8	0.7	80	90	0.7	8SC	P
KF8	023 004 500	A	2	1	90	90	1.5	0.6	80	90	0.6	8SC	P
KF35	026 510 300	G ₁	2	1.5	125	60	1.45	1.08	125	60	1.08	A08	P
KHI	023 051 560	G ₁	2	1.5	90	60	2.1	1.4	80	60	1.4	8SC	P
KK2	023 064 560	G ₁	2	1	90	50	2		80	60		8SC	O
KK2G	026 546 300	G ₁	2	1.0	90	50	2.0		80	60		A08	O
KK32	037 546 200	G ₁	2.0	0 0	150 150	50 50	2.1 0.7		150 150	60 60	2.1 0.7	A08	O
KLI	642 350 000		2	4.5	90	90	8	1.7	80	75	1.7	B5	P
KLI	032 004 560		2	4.5	90	90	8	1.7	80	75	1.7	8SC	P
KL2	023 004 560		2	7.5	90	90	11	1.8	80	75	1.8	8SC	P
KL4	023 004 560		2	2.5	90	90	4.7	1.8	80	75	2.8	8SC	P
KL5	032 004 560		2	4	90	90	4.8	1.4	80	75	1.4	8SC	P
KL35	036 540 200		2	4.5	125	150	5.6	2.2	100	100	2.2	A08	P
KLL3	423 564 570		2	12	150	150	8		100	100		8SC	PP
KLL32	026 447 350		2	11.3	125	150	3.8	2.6	100	100	2.6	A08	PP
KR5	264 530 000		6	9	150	150	14	1.9	100	100	1.9	UX5	P
KR20	264 413 000		2.5	0	250		3.5	1.4	250		1.4	UX6	T
KR22	264 413 000		6	0	250		3.5	1.4	250		1.4	UX6	T
KR25	265 413 000		2.5	16.5	250	250	34	2.2	100	PenLF	2.2	UX6	P
KR28	289 130 000		6				30		REC		15mA	UX5	RR
KR31	281 300 000		10				120		REC		30mA	UX4	R
KT2	642 350 000		2	4.5	150	150	7.5	2.5	100	100	2.5	B5	P
KT8	542 310 000	A	6	16	250	250	72	6	100	100	6	B5	P
KT8C	542 310 000	A	6	16	250	250	72	6	100	PenLF	6	B5	P
KT16	026 540 230		1.4	4.5	90	90	8.8	1.9	No Data Available			A08	P
KT21	642 350 000		2	2.5	150	125	5.3	5.3	100	100	5.3	B5	P
KT24	642 350 000		2	3.5	150	125	5.0	3.2	100	100	3.2	B5	P
KT30	045 231 600		13	12	250	250	40	3.9	100	PenLF	3.9	B7	P
KT31	305 221 600	G ₁	13	4	200	175	40	10	100	150	9	B7	P
KT32	026 540 310		26	7.6	125	150	75	9	100	100	8	A08	P
KT33	326 540 210		13	13.2	200	200	60	10	100	100	9	A08	P
KT33c	326 540 210		13	7	175	175	92	10	100	100	9	A08	P
KT35	326 540 210		13	11.5	200	200	50	10	100	100	9	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
KT36	020 540 310	A	26	10.0	150	150	60	11.0	100	100	10.0	A08	P
KT41	045 231 600		4 (5)	4.4	250	250	40	10.5	100	PenLF	9	B7	P
KT42	045 231 600		4	16.5	250	250	34	2.5	100	PenLF	2.5	B7	P
KT44	041 231 500	A	4 (5)	25	250	250	85	6.25	100	PenLF	6.2	B7	P
KT45	041 231 500	A	4	25	250	250	85	6.3	100	PenLF	6.0	B7	P
KT55	*26 540 310		52	15	150	150	88.0	16	No Data Available			A08	P
KT61	026 540 310		6	4.4	250	250	40	10.5	100	PenLF	9	A08	P
KT63	026 540 310		6	16.5	250	250	34	2.5	100	PenLF	2.5	A08	P
KT66	026 540 310		6	15	250	250	65	6.3	100	PenLF	6.0	A08	P
KT67	256 001 403		6	9	250	175	80	13	100	100	10	B9G	P
KT71	026 540 310		48	9.8	175	175	70	10	100	100	9	A08	P
KT72	026 540 310		16	12.5	175	175	30	2.5	100	100	2.5	A08	P
KT73	026 540 310		6	12.5	175	175	35	2.5	100	100	2.5	A08	P
KT74	026 540 310		16	12.5	175	175	30	2.5	100	100	2.5	A08	P
KT76	026 540 310		15	13	175	175	35	2.5	100	100	2.5	A08	P
KT81	265 004 130		6	4.4	250	250	40	10.5	100	PenLF	9	B8B	P
KT88	026 540 310		6	22	250	250	57	6	No Data Available			A08	P
KT101	265 004 130		80	9.5	175	175	70	10	100	100	9	B8B	P
KTW61	026 510 310	G ₁	6	4	250	100	10	2.9	100	90	2.9	A08	P
KTW62	026 500 310	G ₁	6	3	250	100	8	2.85	100	100	2.8	A08	P
KTW63	026 510 310	G ₁	6	3	250	100	7.6	1.5	100	90	1.5	A08	P
KTW73	026 510 310	G ₁	6	3	250	100	6.5	1.7	100	90	1.7	A08	P
KTW74	026 510 310	G ₁	13	3	250	100	7.6	1.5	100	90	1.7	A08	P
KTZ41	061 231 500	G ₁	4	1.5	250	250	18	12	200	200	10	B7	P
KTZ63	026 510 310	G ₁	6	3	250	100	2	1.23	100	100	1.2	A08	P
KTZ73	026 500 310	G ₁	6	3	250	100	2	1.5	100	90	1.5	A08	P
KZ	802 310 000		20				60		REC		20mA	B5	R
L2	642 300 000		2	3.8	150		4	1.5	125		1.5	B4	T
L2/B	642 300 000		2	3.8	150		4	1.5	125		1.5	B4	T
L2D	642 310 000		2	4.5	150		2	1.5	100		1.5	B5	T
L2/DD	682 390 000	G ₁	2	3.8	150		4	1.6	100		1.6	B5	DDT
L4	642 300 000		4	16	250		20	3.2	100		3.2	B4	T
L11	642 300 000		1	12	100		2.8	0.57	100		0.57	B4	T
L12	642 300 000		2	3	40		2.2	0.8	No Data Available			Sm4	T
L21	642 300 000		2	6	150		2.2	1.8	100		1.8	B4	T
L21DD	682 390 000	G ₁	2	3	150		5.2	1.8	100		1.8	B5	DDT
L22DD	206 080 930	G ₁	2	4.2	150		4	1.55	100		1.55	A08	DDT
L30	040 231 600		13	8	200		25	4.2	100		4.2	B7	T
L42MD	642 350 000		4	20	250	250	22	2.5	100	100		B5 ¹	P
L63	026 040 310		6	8	250		9	2.6	100		2.6	A08	T
L77	6*2 364 100		6	8.5	250		10.5	2.2	100		2.22	B7G	T
L210	642 300 000		2	0	150			0.92	100		0.92	B4	T
L408	642 300 000		4	3	150		5	1.5	125		1.5	B4	T
L410	642 300 000		4	4	150		4.3	1.5	100			B4	T
L412	642 300 000		4	1.5	200		3	1.2	200		1.2	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
L413	642 300 000		4	16	200		12	1.8	100		1.66	B4	T
L414	642 300 000		4	8	150		12	2.8	100		2.8	B4	T
L415	642 300 000		4	10	200		8	2	100		2	B4	T
L416D	643 200 000	G ₂	4	13	250	80	12	1.4	100	75		B4	P
L427D	642 350 000		4	42	300	200	20	1.5	100	100		B5	P
L486D	642 350 000		4	15	250	250	35	2.7	100	PenLF	2.7	B5	P
L491D	642 350 000		4	40	400	200	30	1.8	No Data Available			B5	P
L495	642 350 000		4	30				5				B5	P
L496D	642 350 000		4	17	250	250	36	2.5	100	100		B5	P
L497D	642 350 000		4	30	400	200	45	3.2	No Data Available			B5	P
L510D	642 350 000		5	17	200	150	12	1.3	100	100		B5	P
L2318	642 350 000		20	18	200	200	20	1.7	100	100		B5	P
L4150D	642 310 000	G ₂	4	15	250	250	24	2.5	100	100		B5	P
LA	364 520 000		6	12	175	175	22	2.2	100	100	2.2	UX5	P
LD210	642 300 000		2	4.5	150		3	1.3	125		1.3	B4	T
LD410	642 300 000		4	6	200		4	1.8	100		1.8	B4	T
LG5	218 090 130		6				120		REC		30mA	A08	RR
LG6	218 090 130		12				30		REC		15mA	B8B	RR
LG14	123 000 000	D ₁	6				5		D			B3G	R
LK430	642 300 000		4	32	250		20	1.9	100			B4	T
LK460	642 300 000		4	40	225		30	2.2	No Data Available			B4	T
LK4110	642 300 000		4	36	400		30	2.7	No Data Available			B4	T
LK4112	642 300 000		4	21.6	250		48	3.5	No Data Available			B4	T
LK4200	642 300 000		4	36	400		45	4	No Data Available			B4	T
LL2	642 300 000		2	2.5	150		3	2.6	125		2.6	B4	T
LL2s	023 004 060		2	2.5	150		3	2.6	125		2.6	8SC	T
LL4	642 310 000		4	10	350		18	3.5	125		3.5	B5	T
LL610	642 350 000		5	17	200	150	12	1.3	No Data Available			B5	P
LN152	641 237 154		6	2.3 6.7	100 175		4.0 15.0	1.4 3.2	100 100	60 100	1.4 3.0	B9A	TP
LN309	641 237 154		12.5	8.5 8.0	250 175		10.5 30	2.2 4.5	100 100	60 100	2.0 4.0		
LP2 (FERRANTI)	642 300 000		2	4.5	150		10	3.6	100		3.6	B4	T
LP4	642 300 000		4	36	250		48	5.5	100		5.5	B4	T
LP25	642 300 000		4	31	400		50	7.5	100		6.9	B4	T
LP220	642 300 000		2	4.5	150		5	3.5	100		3.5	B4	T
LS6A	642 300 000		6	91	400		64	2.3	No Data Available			B5	T
LS7	642 300 000		4	4	150		21	2.4	100		2.4	B5	T
LS8	642 300 000		4	8	125			1.3	No Data Available			B4	T
LS8A	642 300 000		4	8	125		26	3	No Data Available			B4	T
LS9B	642 300 000		2	1.5	150		8	0.6	100		0.6	B4	T
LS826	246 310 000		6.3	1.1	100		7.5	5.0	100		5.0	B5B	T
LU4A	642 300 000		4	16	200		12	1.8	100		1.6	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
LZ319	645 237 114		9	{ 2.0 2.0	100 175		14 10	5 6	100 100	60 100	5.0 5.0	B9A	TP
M8079	192 310 800		6				5		D			B7G	RR
M8081	672 344 100		6	0.85	100		8.5	5.3	100		5.3	B7G	TT
M8082	412 360 500		6	12.4	250	250	16	2.6	No Data Available			B7G	P
† M8083	412 361 500		6	{ 2 1.5	250 200	250 150	10 4	7.65 6.4	100 100	150 150	5.0 5.0	B7G	P
M8096	601 235 144		6	7.5	250	250	45.0	7.0	100	150	7.0	B9A	P
M8097	812 314 600		6	2.8	200		7.5	2.8	100		2.8	B7G	DT
M8099	412 314 600		6	2	250		6.0	8.5	200		8.0	B7G	T
M8100	412 365 100		6	2.3	150	150	7	4.3	No Data Available			B7G	P
M8101	412 365 100		6	1.0	250	100	11.0	4.4	250	100	4.4	B7G	P
M8121	412 163 510		6	1.4	100	100	7.0	5.0	100	100	5.0	B8D	P
M8122	412 653 160		6	2.0	100	100	7.5	5.0	100	100	5.0	B8D	P
M8123	281 380 000		6				5.0		D			B8D	R
M8125	412 163 510		6	2.0	100	100	3.0	2.5	100	100	2.3	B8D	P
M8135	412 3** 651		6	4.5	250	250	40.0	11.0	100	150	10.0	B9A	P
M8136	741 226 413		6.3	8.5	250		8.5	2.2	100		2.0	B9A	TT
M8137	741 226 413		6	2.0	250		1.2	1.6	100		1.6	B9A	TT
M8138	802 309 100		6				30.0		REC		15mA	B7G	RR
M8156	462 603 160		6	2.0	100		13.0	5.5	100		5.5	B8D	T
M8157	265 511 413		6	30.0	300	250	25.0	1.9	100	100	1.9	B9G	P
M8161	412 361 500		6	2.5	250	200	8.0	2.5	100	PenLF	2.5	B7G	P
M8162	741 226 413		6	1.5	200		8.5	6.5	200		8.5	B9A	TT
M8195	501 236 014		6.3	1.0	250	100	3	1.85	100	100	1.8	B9A	P
MAZ41	*8* **9 230		4				30		REC		15mA	A08	RR
MCI	423 060 000		1.9	1.5	100		4	0.8	100		0.8	8SC	T
ME2	642 350 000		2	12	200	200	13		100	100		B5	P
ME25	642 350 000		4	30	400	300	60		100	100		B5	P
MH4	642 310 000		4	2	200		8	3.0	100		3.6	B5	T
MH40	642 310 000		4	3	200		2.7	2.4	100		2.4	B5	T
MH41	642 310 000		4	1.5	200		5.2	6	200		6	B5	T
MH206	645 230 600	G ₁	2	3	150	75	3.2		100	75		B7	H
MH1118	645 231 600	G ₁	10	3	200	100	3.5		100	90	0.6	B7	H
MH4105	645 231 600	G ₁	4	3	200	100	7.5		100	100		B7	H
MHD4	908 231 600	G ₁	4	4	200		2	1.9	100		1.9	B7	DDT
MHL4	642 310 000		4	8	250		8	2.5	100		2.5	B5	T
MHLD6	026 890 310	G ₁	6	5	200		11.5	3	100		3	A08	DDT
MKT4	045 231 600		4	11	250	200	32	3	100	100	3	B7	P
MKT4	642 310 000	S	4	11	250	200	32	3	100	100	3	B5	P
ML4	642 310 000		4	16	250		14	3.2	100		3.2	B5	T
ML6	642 310 000		6	8	200		24	3.8	100		3.8	B5	T
ML40	642 310 000		4	3	200			3	100		3	B5	T

† See note on Page 5 regarding Back Emission.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
MM4V	542 310 000	A	4	1.5	200	125	6	2.5	100	100	2.5	B5	PP
MM20	542 310 000	A	20	0	200	100	6	3.5	100	100	3.5	B5	P
MO465	645 231 700	G ₁	4	{ 1.5 1.5 8.5	75		2		80			{ B7 8SC	O
					250	75	21.6		100	75			
MO495	123 174 560	G ₁	4		90				80				O
					250	75	1.6		100	75			
MP2	642 300 000		2	12	150		12.5	3	100		3	B4	T
MP4	067 231 500	G ₁	4		250	150	8	2.5	100	100	2.5	B7	P
MP/Pen	045 231 600		4	16	250	250	30	3.5	100	100	3.5	B7	P
MP/Pen	642 310 000	S	4	16	250	250	30	3.5	100	100	3.5	B5	P
MPT4	045 231 600		4	9	250	200	32	3	100	100	3	B7	P
MPT4	642 310 000	S	4	9	250	200	32	3	100	100	3	B5	P
MR1	802 300 000		4				120		REC		30mA	B4	R
MR4	642 300 000		4	3	200		6	2.5	150		2.5	B4	T
MS4	542 310 000	A	4	1.5	250	75	2.4	1.1	250	75	1.1	B5	P
MS4B	542 310 000	A	4	1	200	75	3.4	3.0	100	75	3.0	B5	P
MS4c	542 310 000	A	4	1	200	75	3.4	3.2	200	75	3.2	B5	P
MSG/HA	542 310 000	A	4	1.5	200	80	2.1	2	100	75	2	B5	P
MSG/LA	542 310 000	A	4	1.5	200	75	5.2	3.75	100	75	3.75	B5	P
MSP4	041 231 500	A	4	1.8	200	100	3.4	2.4	100	75	3.5	B7	P
MSP4	542 310 000	A	4	1.8	200	100	3.4	2.4	100	75	3.5	B5	P
MSP4I	542 310 000	A	4	4	250	250	8.5	3.2	100	PenLF	3.2	B5	P
MSP4I	041 231 500	A	4	4	250	250	8.5	3.2	100	PenLF	3.2	B7	P
MS/Pen	041 231 500	A	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/Pen	542 310 000	A	4	1.5	200	100	4.8	2.8	100	100	2.8	B5	P
MS/PenA	542 310 000	A	4	2.5	200	150	9.0	4.0	100	150	4.0	B5	P
MS/PenA	041 231 500	A	4	2.5	200	150	9	4	100	150	4	B7	P
MS/PenB	061 231 500	G ₁	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/PenT	041 231 500	A	4	1.5	200	100	4.8	2.8	100	100	2.8	B7	P
MS/PenT	542 310 000	A	4	1.5	200	100	4.8	2.8	100	100	2.8	B5	P
MUI	002 300 000	D ₁	4				60		REC		20mA	B4	R
MU2	002 300 000	D ₁	2				5		D			B4	R
MUI2	892 300 000		4				60		REC		25mA	B4	RR
MUI2/14	892 300 000		4 (5)				60		REC		40mA	B4	RR
MUI4	892 300 000		4				60		REC		40mA	B4	RR
MU4250	232 300 000	D ₁	4				120		REC		30mA	B4	R
MVSG	542 310 000	A	4	1.5	200	75	7.5	2.5	100	75	2.5	B5	P
MVSPen	542 310 000	A	4	2	250	125	5.1	2.3	200	100	2.3	B5	P
MVSPen	041 231 500	A	4	1.5	200	100	4.3	2.2	100	100	2.2	B7	P
MVSPenB	061 231 500	G ₁	4	1.5	200	100	4.3	2.2	200	100	2.2	B7	P
MX40	645 231 700	G ₁	4	{ 1 3	150	75		1.5	150	75	0.6	{ B7	TH
					250	75	4.5	2.0	250	75	1.4		
MZ05-20	642 300 000		6	12	350		45	4.2	100		4	B4	T
NI4	036 540 200		1.4	7.5	90	90	7	1.55	80	75	1.55	A08	P
NI5	026 540 230		1.4	7	90	90	7	1.55	80	75	1.55	A08	P
NI6	026 540 230		1.4	4.5	90	90	9.5	2.1	80	90	2.1	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vr	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
N17	264 536 200		1.4	7	90	75	7.4	1.58	80	60	1.58	B7G	P
N18	364 526 300		1.4	4.5	90	90	9.5	2.1	80	75	2	B7G	P
N19	365 024 300		1.4	4.5	90	90	7.7	2.0	80	75	2.0	B7G	P
N30	045 231 600		13	12	250	250	40	3.9	100	PenLF	3.9	B7	P
N31	205 331 600	G ₁	13	4.4	200	175	40	10	100	100	9	B7	P
N37	412 360 500		13	8.0	175	150	50	10.0	100	100	9.0	B7G	P
N40	045 231 600		4	3.5	250	250	32	2.9	100	150	2.9	B7	P
N41	045 231 600		4	3.5	250	250	32	10.0	100	PenLF	9	B7	P
N42	045 231 600		4	16.5	250	250	34	2.5	100	PenLF	2.5	B7	P
N43	005 231 600	G ₁	4 (5)	4.5	250	250	40	10	100	PenLF	9	B7	P
N63	026 540 310		6	16.5	250	250	34	2.5	100	150	2.5	A08	P
N66	026 540 310		6	15	250	250	85	6.3	100	150	6	A08	P
N77	412 360 500		6	12	250	250	20	2.6	100	PenLF	2.6	B7G	P
N78	412 360 500		6	5.5	250	250	35	10.0	100	150	9.0	B7G	P
N108	412 36* 500		40	8	175	150	50	10	100	100	9.0	B7G	P
N142	261 054 130		45	9.5	175	175	54.5	9.5	100	100	9.0	B8A	P
N144	412 360 500		6	12	250	250	20.0	2.6	100	PenLF	2.6	B7G	P
N145	261 054 130		40	6.3	175	150	29	7.5	100	100	7.0	B8A	P
N147	026 540 310		6	6	250	250	36		100	PenLF	8	A08	P
N148	265 004 130		6	12.5	250	250	45	94.1	100	100	4	B8A	P
N150	261 054 130		6	7	250	250	36	10	100	100	9	B8A	P
N151	261 054 130		6	13.5	250	250	22.5	2.9	100	100	2.9	B8A	P
N152	*41 23* *51	A	20	28	200	200	40.0	6.0	100	100	6.0	B9A	P
N153	541 231 600		15	2.3	175	175	36.0	10.0	100	100	9.0	B9A	P
N154	*41 23* 6*5		16	14.2	200	200	45	8.2	100	100	7	B9A	P
N155	441 231 615		6	10.8	225	225	26	3.2	150	100	3.2	B9A	P
N309	541 231 600		15	2.3	175	175	36.0	10.0	100	100	9.0	B9A	P
N329	*41 23* 6*5		16	14.2	200	200	45	8.2	100	100	7.0	B9A	P
N339	*41 23* *51	A	21.5	13	150	150	50.0	8.5	100	100	7.0	B9A	P
N349	*41 23* *51	A	20	12.0	150	150	5.0	8.5	100	100	7.0	B9A	P
N359	041 231 551	A	21.5	28	200	200	40	6	100	100	6	B9A	P
N709	*41 23* 6*5		6	7.3	250	250	48	11.3	100	150	10	B9A	P
N727	412 365 400		6	12.5	250	250	45.0	4.1	100	PenLF	4.0	B7G	P
NDD40	802 310 000		4						D			B4	D
NEP51	023 110 560		4	3	225	100	8	2.2	100	100		85C	P
NF2	023 110 560	G ₁	12.5	2	200	100	3	2.1	100	100	2.1	85C	P
NF3	023 110 560	G ₁	12.5	2	200	100	4.5	2.3	100	100	2.3	85C	P
NG320	002 300 000	D ₁	2						D			B5	D
NG3020	002 300 000	D ₁	2				5		D			B4	R
NHP51	023 110 560	G	4	2.5	225	100	3.5	2	100	100		85C	P
NIX2	*41 23* *51	A	21.5	28	200	200	40	6	100	100	6	B9A	P
NLP61	023 104 560		4	7	250	250	4	9	100	100		85C	P
NLP62	020 314 560		4	14	250	250	72	9	No Data Available			85C	P
NSS42	542 310 000	A	4	2.5	225	100	3.5	2	100	100		B5	P
NSS43	542 310 000	A	4	2.5	225	100	3.5	2	100	100		B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
NSS183	542 310 000	A	20	2.5	200	100	3.5	2	100	100		B5	P
NT51	023 100 060	G	4	5	250		6	2.5	100		2.2	8SC	T
NVS4	542 310 000	A	4	2	200	100	6	1	100	100		B5	P
NW4	642 310 000		4	2.5	200		2.5	1	100		2.2	B5	T
OO	364 200 000		5	0	40		1	0.66	No Data Available			UX4	T
OOA	364 200 000		5	0	40		1.5	0.66	No Data Available			UX4	T
OI	364 200 000		5	4.5	90		2.5		80			UX4	T
OIA	364 200 000		5	4.5	90		2.5	0.72	80		0.72	UX4	T
OIAA	364 200 000		5	4.5	90		3.2	0.9	90		0.85	UX4	T
OIB	364 200 000		5	4.5	90		2.5	0.72	90		0.72	UX4	T
O15/400	642 300 000		4	35	400		40	4.5	100		4.5	B4	T
O84	642 300 000		4	4	125		4	1.3	100		1.2	B4	T
OBC3	041 896 230		12.5	2	250		1	1.1	150		1.1	A08	DD ¹
OB2	206 581 930		9	2	200	100	6	1.8	100	100	1.7	A08	P
OCH4	217 544 630	G ₁	15	2	100		3.5		100	60	3.5	A08	TH
					200	100	3	0.75	100	100	0.75		
OF1	026 510 310	G	6.3	3	250	100	8.5	1.75	100	100	1.7	A08	P
OF5	026 510 310	G	12.6	3	250	100	7	1.45	100	100	1.4	A08	P
OF9	206 501 130	G ₁	8.5	2.5	200	100	6	2.2	100	100	2	A08	P
OM1	020 080 310		30				120		REC		30mA	A08	R
OM3	028 190 310		6						D			A08	DD
OM4	026 980 310	G ₁	6	5	250		5.5	2.2	100		2.2	A08	DDT
OM5	026 510 310	G ₁	6	2	250	100	3	1.8	100	100	1.8	A08	P
OM5C	026 510 310		6	2	250	100	3	1.8	100	100	1.8	A08	P
OM6	026 510 310	G ₁	6	2.5	250	100	6	2	100	100	2	A08	P
OM7	026 510 310	G ₁	6	2.5	250	100	6	2	100	100	2	A08	P
OM9	026 500 310	G ₁	6	18	250	250	32	2.8	100	150	2.8	A08	P
OM10	027 546 310	G ₁	6	2.0	100		5.4	2.2	100	60	2.8	A08	TH
					250	100	5.0	2.4	100	100	1.2		
OP41	045 231 600		4	12.5	250	250		9.1	100	100	8	B7	P
OP42	045 231 600		4	6.2	250	250		10.5	100	100	9	B7	P
OS18/600	023 114 500	A ₁	6	14	250	275	72	8.5	100	PenLF	8	8SC	P
OSW3105	041 896 230		6.3	2	250		0.9	1.1	100		1	A08	DDT
OSW3106	026 540 310		6.3	12.5	250	250	45	4.1	100	150	4	A08	P
OSW3107	020 809 030		5				60		REC		20mA	A08	RR
OSW3108	026 540 310		6.3	14	250	250	72	6	100	150	5	A08	P
OSW3109	028 190 300		6.3						D			A08	DD
OSW3111	021 415 360		6.3	3.0	250	100	9.2	2	100	100	2	A08	P
OSW3112	026 040 310		6.3	8	250		9	2.6	100		3	A08	T
OS6/300	642 350 000		4	20	300	150	22	2	100	100		B5	P
P2	642 300 000		2	10	150		19	3.5	100		3.5	B4	T
P4	642 300 000		4	21	250		30	2.8	100		2.8	B4	T
P6MO	023 104 560		6.3	14	250	250	72	9	100	100		8SC	P
PI2/250	642 300 000		4	44	250		60	6	100		6	B4	T
PI5/250	642 300 000		4	44	250		60	6	100		6	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
P15/250(S)	023 004 060		4	44	250		60	6	100		6	8SC	T
P24/450	642 300 000		7.5	70	400		55	2.1	100		2.1	B4	T
P25/400	642 300 000		6	100	350		70	3.7	100		3.7	B4	T
P25/500	642 300 000		6	90	400		65	3	100		3	B4	T
P26/500	642 300 000		4	100	400		62.5	4.2	100		4.2	B4	T
P27/500	642 300 000		4	27	400		62.5	8.5	100		8	B4	T
P30/500	642 300 000		4	100	400		60	4	100		4	B4	T
P41	216 040 030		4	11.8	250		16	4.5	100		4.5	M08	T
P43M	642 350 000		4	17	250	250	36	2.5	100	100		B5	P
P61	216 040 030		6	11.8	250		16	4.5	100		4.5	M08	T
P215	642 300 000		2	0	150			1.4	100		2.2	B4	T
P220	642 300 000		2	7.5	150		6	3.0	100		3	B4	T
P220A	642 300 000		2	14	150		15	2.7	100		2.7	B4	T
P222	642 300 000		2	7.5	150		6	3	100		3	B4	T
P225	642 350 000		2	4.5	150	150	5.6	2.2	100	100	2.2	B5	P
P240	642 300 000		2	24	150		18	1.1	100		3.7	B4	T
P240A	642 300 000		2	21	150		25	5	100		5	B4	T
P410	642 300 000		4	12	150		7	1.25	100		1.5	B4	T
P414	642 300 000		4	16	100		14	2.8	80		2.8	B4	T
P415	642 300 000		4	25	150		14	1.5	100		1.5	B4	T
P420	642 300 000		4	85	400		50	6	100		6	B4	T
P422	642 350 000		4	20	250	250	22	2.5	100	100		B5	P
P425	642 300 000		4	16.5	150		17	1.9	100			B4	T
P430	264 300 000		4	30	200		25	2.2	100		2.2	UX4	T
P434	032 004 560		4	17	250	250	36	2.5	100	100		8SC	P
P435	642 350 000		4	17	250	250	30	3	100	PenLF	3	B5	P
P440	642 350 000		4	30	400	200	45	5	No Data Available			B5	P
P440N	045 231 600		4	22.0	250	250	36	2.8	100	PenLF	2.8	B7	P
P441n	045 231 600		4	22	250	250	36	2.8	100	PenLF	2.8	B7	P
P455	264 300 000		4	15	250		30	5.5	100		5.5	UX4	T
P460	642 300 000		4	40	200		50	3.5	100		3.5	B4	T
P469	045 231 600		4	14	250	275	72	8.5	100	PenLF	7	B7	P
P495	045 231 600		4	6	200	200	32		100	100		B7	P
P496	045 231 600		4	6	200	200	32	9.5	100	100	8	B7	P
P520	642 350 000		5	17	200	150	12	1.3	100	100		B5	P
P625B	642 300 000		6	1	200			2.8	200		2.8	B4	T
P626	023 100 560	G ₁	6.3	22	250	250	36	2.5	100	100		8SC	P
P628	023 100 560	G ₁	6.3	17	250	250	36	2.5	100	100		8SC	P
P650	642 300 000		6	1	100		37	2.7	100		2.7	B4	T
P861	289 130 000		6				30		REC		15mA	UX5	RR
P1320	023 100 560		13	20	250	250	22	1.9	100	100		8SC	P
P2118	642 310 000		20	15	200		20	4	100		4	B5	T
P2060	023 140 560		24	19	200	100	40	3.15	100	90	3	8SC	P
P2460	642 310 000	S	24	19	200	100	40		100	90		B5	P
P3580	045 231 600		33	8.5	200	200	45	8	100	150	7	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
P4100	642 300 000		4	40	400		30		100			B4	T
PAI	642 310 000		4	10	200		40	5	100		5	B5	T
PA20	642 300 000		2	36	300		49	5.2	100		5	B4	T
PA40	642 300 000		4	90	400		200	10	100		9	B4	T
PABC80	†91 238 146		9.5	2.3	200		1.00	1.4	100		1.4	B9A	DDDT
PABI	023 1†0 980		6						D			8SC	DDD
PBI	234 600 000		2	4.0	150		11.5	3.85	150		3.85	B4	T
PB495	892 300 000		4				30		REC		15mA	B4	RR
PBF2	026 895 310	G ₁	6	3	250	100	5.8	1.2	100	100	1.2	A08	DDP
PCO5-15	023 014 500	A ₁	4		400	250	40	1.25	No Data Available			8SC	P
PCC84	147 234 116		7.0	1.5	90		12.0	6.0	100		6.0	B9A	TT
PCC85	641 237 410		9	2.1	200		10	5.8	150		5.8	B9A	TT
□ PCC88	641 237 410		7	1.2	90		15	12.5	No Data Available			B9A	TT
PCF80	645 237 114		9	2.0 1.0 1.0	100		14.0	5.0	100	60	5.0	B9A	TP
					175	175	10.0	6.2	150	150	5.0		
					150	0	18	8.5	100	60	7.0		
PCF82	645 237 114		9.5	1.0	250	100	10	5.2	100	100	5.0	B9A	TP
PCL81	451 237 614		12.6	1.5 6.5 1.5	200		0.5	1.2	100	60	1.2	B9A	TP
					200	200	30	8.7	100	100			
					175		1.7	2.4	100	60	3		
PCL82	414 237 516		16	11	175	175	41	7.5	100	100	6	B9A	TP
PCL83	641 237 154		12.5	8.5 9.0 1.7	250	0	10.5	2.2	100	60	2.0	B9A	TP
					175	175	30	4.7	100	100	4.0		
					200		3	4	100	60	4		
PCL84	461 237 145		15	2.9	200	200	18	10	100	100		B9A	TP
PD220	446 230 700		2	1.15	150		0.8	0.9	150		0.9	B7	TT
PD220A	446 230 700		2	3	150		5.0	1.5	100		1.5	B7	TT
PDD2	264 589 130		6.3	6	250	250	36	9	100	100	8.5	A08	DDP
PEO4-10	023 114 500	A ₁	12		400	300	27	7.5	No Data Available			8SC	P
PEO5-15	023 114 500	A ₁	12				40	1.5	No Data Available			8SC	P
PEO6-4OP	123 114 500	A ₁	6	40	400	300	40	4	No Data Available			8SC	P
PEI-80	023 114 500	A ₁	12				40	2.5	No Data Available			8SC	P
PEI-100	245 611 300		12	33	400	250	40	6	No Data Available			B7A	P
Pen4DD	918 236 500	G ₁	4 (5)	6	250	250	36	9.5	100	PenLF	8	B7	DDP
Pen4V	642 310 000	G ₂	4	10	250	200	35	3.0	100	PenLF	2.8	B5	P
Pen4VA	642 310 000	G ₂	4	22	250	250	36	2.8	100	PenLF	2.8	B5	P
Pen4VA	045 231 600		4	20	250	250	36	2.8	100	PenLF	2.8	B7	P
Pen4VB	045 231 600		4	5.8	250	250	36	9.5	100	PenLF	8	B7	P
Pen4VX	642 310 000	S	4	15	350	200	22	3.5	100	150	3.5	B5	P
Pen13	023 100 560	G ₁	13	14	200	200	25	2.5	100	100	2.5	8SC	P
Pen13A	023 110 560	G ₁	33	8.5	200	200	45	8	100	100	6	8SC	P
Pen13C	045 231 600		13	11	250	250	32	6.5	100	PenLF	6	B7	P
Pen20	642 310 000	S	20	18	200	200	20	1.7	100	150	1.7	B5	P
Pen24	206 540 030		2	3.3	125	125	5	4	100	100	4	M08	P
Pen25	206 540 030		2	3.6	125	125	5	3	100	100	3	M08	P
Pen26	023 100 560	G ₁	24	19	200	100	40	3.1	100	60	3	8SC	P

□ See note on Page 5 regarding insulating testing.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
Pen36A	145 231 600	G ₁	35	8.5	200	200	45	8	100	150	7	B7	P
Pen36C	045 231 600		33	8.5	200	200	45	8	100	100	7	B7	P
Pen40DD	918 236 500		44	8.5	200	200	45	8	100	100	7	B7	DDP
Pen44	216 540 030		4	11	300	275	70	10.6	100	PenLF	9	M08	P
Pen45	216 540 030		4	8.5	250	250	40	8.8	100	PenLF	8	M08	P
Pen45DD	216 590 830	G ₁	4	8.5	250	250	40	8.8	100	100	8	M08	DDP
Pen46	210 540 030	A	4 (5)	8.0	300	225	63	8.5	100	100	8	M08	P
Pen141	206 540 030		1.4	9	90	90	5.5	1.4	80	75	1.4	M08	P
Pen220	642 350 000		2	4.9	150	150	9	2.2	100	100	2.2	B5	P
Pen220A	642 350 000		2	9	150	150	18	2.2	100	100	2.2	B5	P
Pen230	642 350 000		2	4.5	150	125	6.0	2.2	150	125	2.2	B5	P
Pen231	642 350 000		2	2.5	125	125	5	4.4	100	100	5	B5	P
Pen383	216 540 030		38	10	175	175	64	10.5	100	100	9	M08	P
Pen384	216 540 030		38	7	125	125	40	7.8	100	100	12.0	M08	P
Pen425	642 350 000		4	25	300	200	20	1.7	100	100	1.7	B5	P
Pen428	045 231 600		4 (5)	13.8	250	250	72.0	8.5	250	200	7.0	B7	P
Pen453DD	216 590 830	G ₁	45	10	175	175	64	10.5	100	100	9	M08	DDP
Pen650	023 114 500	A	6	24	400	300	30	5	100	150	5	8SC	P
Pen1340	045 231 600		13	8.6	250	250	41	6.4	100	PenLF	6	B7	P
Pen2020	023 100 560	G ₁	20	19	200	100	40	3.1	100	60	3.1	8SC	P
Pen3520	045 231 600		35	8.0	200	200	40.0	7.3	100	100	7.0	B7	P
Pen3820	045 231 600		38	10	150	175	64	10.5	100	100	9	B7	P
PenA1	642 350 000		4	16.5	250	250	32	3	100	PenLF	3	B5	P
PenA4	045 231 600		4	5.8	250	250	36	9.5	100	PenLF	9	B7	P
PenA4	005 231 600	G ₁	4	5	250	250	40	9.1	100	100	8	B7	P
PenB1	642 350 000		2	4.5	150	150	8.5	2.5	100	100	2.5	B5	P
PenB4	045 231 600		4 (5)	14	250	275	72	8.5	100	PenLF	7	B7	P
PenDD61	869 231 500	G ₁	6	5.3	250	250	32.0	8.5	250	200	8.0	B7	DDP
PenDD1360	968 231 500	G ₁	13	5.3	250	250	32	8.2	100	100	8	B7	DDP
PenDD2530	869 231 500	G ₁	25	7.75	250	250	43	7.8	100	150	7.8	B7	DDP
PenDD4020	968 231 500	G ₁	40	7.75	250	250	43	7.8	100	100	7	B7	DDP
PenDD4021	968 231 500	G ₁	45	10	175	175	64	10.5	100	100	12	B7	DDP
PF9	026 510 310	G ₁	6	3.5	250	100	7.5	1.65	100	100	1.6	A08	P
PF462	041 230 500	A	2	1	150	150	3	1.85	150	150	1.85	B7	P
PF472	041 230 500	A	2	0.5	150	150	2.5	1.7	150	150	1.7	B7	P
PL33	026 540 310		19	5.3	250	250	32	9.0	100	PenLF	8	A08	P
PL36	*2* 540 310	A ₁	25	21.0	175	175	100	11.0	No Data Available			A08	P
PL38	120 540 310	A	30	5.5	200	200	75	13.5	100	PenLF	10	A08	P
PL81	*41 23* *51	A	21.5	28	200	200	30	6.0	100	100	6.0	B9A	P
PL81F	*41 23* *51	A ₁	21.5	28	200	200	30	6	100	100	6	B9A	P
PL82	041 230 605		16	14.2	200	200	45.0	7.6	100	100	7.0	B9A	P
P L83	541 231 600		15	2.3	175	175	36	10	100	100	9	B9A	P
P L84	*41 23* 6*5		15	12.5	175	175	70	10	100	100	9	B9A	P
P L820	041 231 551	A	21.5	22.0	175	175	45.0	6.2	100	100	6.0	B9A	P
PMO4	412 365 100		6.3	1.2	250	100	11	4.4	100	100	4	B7G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PMO5	412 365 100		6-3	2-3	150	150	7	4-3	100	100	4	B7G	P
PMO7	412 361 500		6-3	2	250	250	10	7-5	100	150	5	B7G	P
PM1A	642 300 000		2	0	100		1	1-2	100		1-2	B4	T
PM1HF	642 300 000		2	3	150		1-5	0-8	100		0-8	B4	T
PM1HL	642 300 000		2	1-5	150		2-3	1-2	150		1-2	B4	T
PM1LF	642 300 000		2	6	125		3	0-9	100		0-9	B4	T
PM2	642 300 000		2	7	100		4	0-9	100		0-9	B4	T
PM2A	642 300 000		2	6	150		5	2	100		2	B4	T
PM2B	446 230 700		2	1	125		3	2-5	100		2-5	B7	TT
PM2BA	446 230 700		2	1	125		3	2-1	100		2-1	B7	TT
PM2DL	642 300 000		2	4-5	150		2	1-5	100		1-5	B4	T
PM2DX	642 300 000		2	5	150		2-3	1-05	100		1	B4	T
PM2HL	642 300 000		2	1-5	150		2-2	1-4	150		1-4	B4	T
PM3	642 300 000		4	0	100		2	1-05	100		1-0	B4	T
PM4DX	642 300 000		4	0	100		1-5	2	100		2	B4	T
PM12	542 300 000	A	2	0	150	75	4-0	1-1	100	75	1-1	B4	P
PM12A	542 300 000	A	2	1	150	75	2	1-5	100	75	1-5	B4	P
PM12M	542 300 000	A	2	1	150	90	1-4	1-4	150	90	1-4	B4	P
PM12V	542 300 000	A	2	0	150	90		0-75	100	90	0-7	B4	P
PM14	542 300 000	A	4	0	150	75	2-75	0-87	100	75	0-8	B4	P
PM22	642 350 000		2	10	150	150	15	1-3	100	100	1-3	B5	P
PM22A	642 350 000		2	4-5	150	150	5-6	2-2	100	100	2-2	B5	P
PM22C	642 350 000		2	16	150	150	23	3	100	100	3	B5	P
PM22D	642 350 000		2	2-4	150	150	5	3	100	100	3	B5	P
PM24	642 350 000		4	11	150	150	20	1-75	100	100	1-7	B5	P
PM24	642 310 000	S	4	11	150	150	20	1-75	100	100	1-7	B5	P
PM24A	642 350 000		4	22-5	300	200	20		100	100	2	B5	P
PM24B	642 350 000		4	40	400	300	30	2-1	100	100	2-1	B5	P
PM24C	642 350 000		4	20	400	200		3-0	100	100		B5	P
PM24D	642 350 000		4 (5)	35	400	200	50	4	100	100	4	B5	P
PM24DC	642 350 000		4 (5)	42	300	200	20	1-5	100	100	2	B5	P
PM24E	642 350 000		4	40	300	300	83	3-9	100	150	3-9	B5	P
PM24M	642 350 000		4	17	250	250	30	3	100	PenLF	3	B5	P
PM202	642 300 000		2	14	150		14	3-5	100		2-5	B4	T
PM252	642 300 000		2	0	100		32	3-7	100			B4	T
PM254	642 300 000		4	21	200		15		100			B4	T
PM256	642 300 000		6	27	250		20		100		2-4	B4	T
PN2	642 350 000		2	7-5	150	150	6		100	100		B5	P
PP2	642 300 000	S	2	5	150	150	7	2-1	100	100	2-1	B4	P
PP2	642 350 000		2	5	150	150	7	2-1	100	100	2-1	B5	P
PP2s	023 004 560		2	5	150	150	7	2-1	100	100	2-1	8SC	P
PP3/250	642 300 000		4	37	300		48	5-2	100		6-5	B4	T
PP4	642 350 000		4	15	250	250	36	3-0	100	PenLF		B4	P
PP4s	032 004 560		4	15	250	250	36	3-0	100	PenLF		8SC	P
PP4s	642 350 000		4	15	250	250	36	3-0	100	PenLF		B5	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PP5/400	642 300 000		4 (5)	32	400		62	8.2	100		6	B4	T
PP6As	023 104 560		6	18	250	250	32	2.85	100	PenLF	2.8	8SC	P
PP6B	265 413 000		6		250	250	36	10	100	PenLF	9	UX6	P
PP6BG	026 540 310		6	6	250	250	36	10	100	PenLF	9	A08	P
PP6BS	026 540 310		6	6.0	250	250	36.0	9.0	100	PenLF	9	A08	P
PP6C	026 540 310		6	12	250	200	36	10	100	PenLF	9	A08	P
PP6E	045 231 600		6	17	500	275	72	8.5	100	PenLF	8	B7	P
PP13A	045 231 600		13	12	200	200	40	2.65	100	100	2.5	B7	P
PP13s	023 100 560	G ₁	13	14	200	200	25	3.5	100	100	3.5	8SC	P
PP24	005 231 600	G ₁	24	19	200	100	40	3	100	75	3	B7	P
PP24S	023 100 560	G ₁	24	19	200	100	40	3	100	75	3	8SC	P
PP34	005 231 600	G ₁	35	6.5	200	200	45	8.5	100	100	8	B7	P
PP34S	023 100 560	G ₁	35	6.5	200	200	45	8.5	100	100	8	8SC	P
PP35	045 231 600		35	6.5	200	200	45	8.5	100	100	8	B7	P
PP36	145 231 600		35	6.5	200	200	45	8.5	100	100	8	B7	P
PP37	005 231 600	G ₁	35	9.5	200	100	45	8.5	100	75	8	B7	P
PP60	026 540 310		6	15	250	250	85	6.3	100	150	6.3	A08	P
PP215	642 350 000		2	4.5	90	90	8	1.7	100	90	1.7	B5	P
PP215S	032 004 560		2	4.5	90	90	8	1.7	100	90	1.7	8SC	P
PP220	642 300 000		2	12	150		12.5	3	100		3	B4	T
PP222	642 350 000		2	6	150	150	12	2.5	100	100	2.5	B5	P
PP222	642 300 000	G ₁	2	6	150	150	12	2.5	100	100	25	B4	P
PP225	642 350 000		2	12	150	150	18	2	100	100	2	B5	P
PP225s	023 004 560		2	12	150	125	18	2	100	100	2	8SC	P
PP415	642 350 000		4	12	200	200	12	1.8	100	150	1.8	B5	P
PP416	642 350 000		4	12	200	75	10	2	100	60	2	B5	P
PP430	642 350 000		4	25	200	200	20	2	100	100	2	B5	P
PP431	642 350 000		4	20	250	250	22	1.9	100	150	1.9	B5	P
PP2018	642 310 000	G ₁	20	18	200	200	20	2.5	100	100	2.5	B5	P
PP2018	045 231 600		20	18	200	200	20	2.5	100	100	2.5	B7	P
PP2101	364 520 000		2	3	150	150	7	2.1	100	100	2.1	UX5	P
PP3521	040 231 600		35	25	200		70	6.3	100		6	B7	T
PP4100	642 350 000		4	40	400	300	30	3	100	PenLF	3	B5	P
PP4101	642 350 000		4	14	250	250	36	3.5	100	PenLF	3.5	B5	P
PP4118	160 452 300		40	10	175	175	35	6.5	100	100	6	C7	P
PT	045 231 600		4	6	250	250	32.5	7.5	100	PenLF	2	B7	P
PT2	642 350 000		2	4.5	125	125	5.3	2.6	100	100	7.6	B5	P
PT2	642 300 000	G ₁	2	4.5	150	150	6.5	2.5	100	100	2	B4	P
PT2A	642 350 000		2	10.5	150	150	18		100	100		B5	P
PT2-K	642 350 000		2	4.5	150	150	9.5	2.5	100	100	2.5	B5	P
PT4(M-O)	642 350 000		4	17	250	250	30	3.0	100	PenLF	2.85	B5	P
PT4/D	968 231 500	G ₁	4	6	250	250	32.5	7.5	100	PenLF	7	B7	DDP
PT4(Ferranti)	045 231 600		4	6	250	250	36	9.5	100	PenLF	7	B7	P
PT5	045 231 600		26	7	250	250	36	9	No Data Available			B7	P
PT10	045 231 600		4	7.5	250	250	40	9	100	PenLF	8	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PT12	204 531 102	A	10	15	250	250	62	6	100	PenLF	6	B9	P
PT15	542 310 000	A	6	25.0	300	300	2.8		100	100	1.2	B5	P
PT16	642 350 000		4	15	300	300	55	4.8	100	PenLF	4.8	B5	P
PT25	642 350 000		4	22	400	200	62	4	100	100	4	B5	P
PT25H	642 350 000		5	16	400	300	62.5	6.5	100	PenLF	5	B5	P
PT41	642 350 000		4	12.5	250	200	30	3	100	100	3	B5	P
PT41B	642 350 000		4	40	400	300	30	2.25	100	100	2.2	B5	P
PT225	642 350 000		2	6	150	150	8	2.3	100	100	2.5	B5	P
PT225	642 300 000	G ₁	2	6	150	150	8	2.3	100	100	2.5	B4	P
PT240	642 350 000		2	9	150	150	16	2.5	100	100	1.6	B5	P
PT250	642 350 000		2	15	250	250	40		100	PenLF		B5	P
PT425	642 350 000		4	7.5	150	150	15	2	100	100	2	B5	P
PTAD	968 231 500	G ₁	4	6	250	250	7	7	100	PenLF	7	B7	DDP
PTA	045 231 600		13	10	250	250	32	4	100	PenLF	4	B7	P
PTS	005 231 600	G ₁	26	5.5	250	250	40	6	100	PenLF	6	B7	P
PTS	045 231 600		26	8.2	250	250	32	6	100	PenLF	5	B7	P
PTSA	869 231 500	G ₁	26	5.5	200	200	40		100	PenLF		B7	DDP
PTSD	968 231 500	G ₁	26	5	250	200	40	6	100	PenLF	6	B7	DDP
PTZ	005 231 600	G ₁	40	5.5	250	200	40	7.5	100	PenLF	7	B7	P
PVO6-20	400 235 100	A	6	40	200	300	40	4	100	100	4	B7	P
PVO6-25	401 235 100	A	6	40	200	300	40	4	100	100	4	B7	P
PV1-35	401 235 100	A	12	25	250	200	40	2	100	100	2	B7	P
PV4	892 300 000		4				60		REC		20mA	B4	RR
PV25	091 231 800		25				60		REC		20mA	B7	RR
PV29	091 231 800		30				60		REC		20mA	B7	RR
PV29s	123 180 090		30				60		REC		20mA	8SC	RR
PV30	091 231 800		30				30		REC		15mA	B7	RR
PV30a	123 180 090		30				30		REC		15mA	8SC	RR
PV30S	123 190 080		30				60		REC		20mA	8SC	RR
PV75/1000	892 300 000		4				30		REC		17mA	B4	RR
PV100/2000	892 300 000		4				60		REC		18mA	B4	RR
PV200/600	892 300 000		4				120		REC		28mA	B4	RR
PV400	802 300 000		4				30		REC		15mA	B4	R
PV430	892 300 000		4				15		REC		9mA	B4	RR
PV475	892 300 000		4				15		REC		11mA	B4	RR
PV480	802 300 000		4				30		REC		16mA	B4	R
PV495	892 300 000		4				30		REC		17mA	B4	RR
PV3018	190 812 300		30				60		REC		20mA	C7	RR
PV4100	892 300 000		4				30		REC		15mA	B4	RR
PV4200	892 300 000		4				60		REC		27mA	B4	RR
PV4201	892 300 000		4				60		REC		27mA	B4	RR
PV4300	892 300 000		4				60		REC		20mA	B4	RR
PVB6	892 310 000		6				60		REC		20mA	B5	RR
PX2	642 300 000		2	22	150		22	1.5	100		1.5	B5	T
PX4	642 300 000		4	43	300		43	6	100		6	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
PX5	642 300 000		4	34	400		62.5	6.5	100		6.5	B4	T
PX25	642 300 000		4 (5)	31	400		40	7.5	100		7	B4	T
PX25A	642 300 000		4 (5)	100	400		62.5	3.7	100		6.9	B4	T
PX41	642 300 000		4	40	250		49	6	100		6	B4	T
PX230	642 300 000		2	15	150		17.5	3.5	100		3.5	B4	T
PX230SV	602 300 000	G ₁	2	15	150		18	3.5	100		3.5	B4	T
PX240	642 300 000		2	32	200		25	3	100		3	B4	T
PX2100	642 300 000		7.5	30	400		18	1.6	100		1.6	Sm4	T
PY31	020 080 310		17				120		REC		70mA	A08	R
PY32	028 08* 310		29				180		REC			A08	R
PY71	200 800 030	C	21				120		REC		30mA	B8B	R
PY80	001 230 008		19				180		REC		70mA	B9A	R
PY81	*** 23* **8	C	17				120		REC		60mA	B9A	R
PY82	**1 23* **8		19				180		REC		70mA	B9A	R
PY83	*** 23* **8	C	20				120		REC		70mA	B9A	R
PZ	264 530 000		2.5	16.5	250	250	31	2.5	100	PenLF	2.5	UX5	P
PZ03-3	401 235 000	A	4	25	300	125	25	1.4	100	100	1.4	B7	P
PZ05-15	401 235 000	A	4		400	150	40	1.25	100	100	1.2	B7	P
PZ30	029 183 210		26				120		REC		60mA	A08	RR
PZH	265 413 000		2.5	16.5	250	250	34	2.2	100	PenLF	2.2	UX6	P
QA2400	412 361 500		6	2.5	200	200	8.0	2.5	100	150	2.5	B7G	P
QA2401	6*2 364 100		6	8.5	250		10.5	2.2	100		2.22	B7G	T
QA2402	412 36* 500		6	13.5	250	250	16.0	2.6	100	150	2.6	B7G	P
‡ QA2403	412 361 500		6	{ 2.0 1.6	250	250	10.0	7.5	100	150	5.0	} B7G	P
QA2404	192 310 800		6		200	150	4.0	6.4	100	150	5.0		
							3.0		D			B7G	DD
QA2405	241 657 143		6	14	250	150	30	3.9	100	100	3.9	B9G	PP
QA2406	471 226 413		6	2.0	250		10.0	5.5	100		5.0	B9A	TT
QA2407	802 309 100		6				30		REC		15mA	B7G	RR
QA2408	481 461 230		6	8.0	250		9.0	2.6	100		2.6	A08	TT
QB65	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
QB309	641 227 413		6	2	250		10	5.5	100		5	B9A	TT
QD77	182 310 900		6						D			B7G	DD
QE04-10	265 511 413		6.3	12	300	150	25	1.9	No Data Available			B9G	P
QE05	125 141 300	A ₁	6		200	200	100	7	No Data Available			A08	P
QE06-50	254 130 000	A ₁	6	14	300	250	83	6.5	100	100		UX5	P
QL77	6*2 364 100		6	8.5	250		10.5	2.2	100		2	B7G	T
QN77	412 360 500		6	12.5	250	250	16	2.6	100	PenLF	2.6	B7G	P
QPT2	476 235 700		2	9	150	150	3.3		100	100		B7	PP
QP21	446 235 700		2	4.5	150	150	11.0	2.3	100	100	2.3	B7	PP
QP22A	465 230 574		2	12	150	150	3	4	150	150	4	B9	PP
QP22B	446 235 700		2	11.7	150	150	3.8		100	100	3.1	B7	PP
QP25	207 544 630		2	6	125	125	10	3	100	100	3	M08	PP

‡ See note on Page 5 regarding Back Emission.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
QP230	446 235 700		2	9-6	125	125	4-65	3	100	100	3	B7	PP
QP240	465 230 574		2	5-0	150	150	25	4	100	100	4	B9	PP
QQ03-12	601 235 144		6		300	250	45	7	No Data Available			B9A	P
QQCO4-15	263 724 540		6	14	200	200	20	2-0	No Data Available			B8B	P
QQE03-20	245 134 200		6	17	400	200	20	2-5	No Data Available			B7A	PP
QQEO4-20	245 134 200	A ₁ A ₂	6	26	400	250	30	3-0	No Data Available			B7A	PP
QQE06-40	245 134 200	A ₁ A ₂	6		400	250	30	3-4	No Data Available			B7A	PP
QQV03-10	414 226 573		6	10	200	150	30-0	3-3	No Data Available			B9A	PP
QQV04-20	241 531 420	A ₁ A ₂	6	23	400	200	25	4	No Data Available			B7A	PP
QQV06-40	245 134 200	A ₁ A ₂	6		400	250	30	3-4	No Data Available			B7A	PP
QQZ04-15	273 624 540		3	10	300	200	20	2	100	100	2	B8B	PP
QV03-12	601 235 144		6	7-5	250	250	45-0	7-0	100	150	7-0	B9A	P
QV04-7	265 511 413		6	30	300	250	25	1-9	100	100	1-9	B9G	P
QV04-12	601 235 144		6	7-5	250	250	45	7	100	150	7	B9A	P
QV04-20	241 531 420	A ₁ A ₂	6	22	400	200	25	4	100	100	4	A08	PP
QV05-25	254 130 000	A	6	12-5	300	250	83	6-5	100	150	6	UX5	P
QV06-20	125 141 310	A	6	28	200	200	100	7	No Data Available			A08	P
QW77	412 361 500		6	2-5	200	200	8	2-5	100	100	2-5	B7G	P
QZ77	412 361 500		6	2	250	250	10	7-6	100	100	5	B7G	P
R1	892 300 000		4				30		REC		15mA	B4	RR
R2	892 300 000		4				60		REC		30mA	B4	RR
R3	892 300 000		4 (5)				60		REC		50mA	B4	RR
R4	892 300 000		4				60		REC		40mA	B4	RR
R4a	892 300 000		4				60		REC		40mA	B4	RR
R4B	802 300 000		4				60		REC		40mA	B4	R
R10	112 311 100	D ₁	4				5		D			B7G	R
R11	002 300 000	D ₁	4				60		REC		20mA	B4	R
R12	023 000 000	D ₁	6						D			B3G	D
R13A	028 090 310		13				30		REC		15mA	A08	RR
R14	028 193 210		26				120		REC		60mA	A08	RR
R16	123 000 000		1-4						D			B3G	D
R17	**1 23* ***	D ₁	6				120		REC		30mA	B9A	R
R18	**1 23* ***	D ₁	6				120		REC		36mA	B9A	R
R19	230 232 032	D ₁	1-25						D			B9A	D
R41	892 300 000		4				60		REC		20mA	B4	RR
R42	892 300 000		4				60		REC		20mA	B4	RR
R43	892 300 000		4				180		REC		40mA	B4	RR
R52	030 809 020		5				60		REC		20mA	A08	RR
R80	264 300 000		4	24	250		20	4	100		4	UX4	T
R236	026 510 300	G ₁	1-4	2	100	100	1	0-55	100	100	0-5	A08	P
R2018	642 310 000		20	2-5	200		2-5	3	100		3	B5	T
RA	892 310 000		13				30		REC			B5	RR
RA1	364 200 000		15	4-5	90		4-5	1-185	80		1-1	UX4	T
RB350/80	892 300 000		4				30		REC		15mA	B4	RR
RB500/120	892 300 000		4				60		REC		20mA	B4	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
RB650/250	892 300 000		4				120		REC		30mA	B4	RR
RE034	642 300 000		4	3	200		2	1-2	100		1	B4	T
RE074	642 300 000		4	9	150		3.5	0.9	100		0.9	B4	T
RE074N	642 300 000		4	9	150		3.5	0.9	100		0.9	B4	T
RE084	642 300 000		4	4	150		4	1.5	100		1.5	B4	T
RE114	642 300 000		4	15	150		13	1.3	100		1.3	B4	T
RE134	642 300 000		4	17	250		12	2.0	100		1.9	B4	T
RE144	642 300 000		4	9	125		2	0.65	125		0.65	B4	T
RE304	642 300 000		4	32	250		20	1.9	100		1.6	B4	T
RE404	642 300 000		3.5		200			0.6	100		0.6	B4	T
RE604	642 300 000		4	45	250		40	2.5	No Data Available			B4	T
REN704	652 310 000	G ₁	4		100		2	1.1	100		1.1	B5	P
REN904	642 310 000		4	3.5	200		6	2.4	100		2.4	B5	T
REN914	642 310 000		4	1.5	200		0.2		100			B5	T
REN924	642 310 000	D ₁	4	3	200		6	2	100		2	B5	DT
REN1004	642 310 000		4		200			1.5	100		1.4	B5	T
REN1814	642 310 000		20	1.6	200		0.2	1.0	100		1.0	B5	T
REN1817D	652 310 000	G ₁	20		100	100		1.1	100	90	1.1	B5	P
REN1821	642 310 000		20	3	200		6	2.3	100		2.3	B5	T
REN1826	642 310 000	D ₁	20	3	200		6	1.8	100		1.8	B5	DT
RENS1204	542 310 000	A	4	2	200	60	4	1.0	100	60		B5	P
RENS1214	542 310 000	A	4	2.2	200	100	6	1.0	100	100		B5	P
RENS1264	542 310 000	A	4	2	200	100	3	2	100	100		B5	P
RENS1264BI	542 300 000	A	4	2	200	100	3	2	100	100		B4	P
RENS1274	542 310 000	A	4		200	100	3	2	100	100		B5	P
RENS1284	542 310 000	A	4	2	200	100	3	2.5	100	100		B5	P
RENS1294	542 310 000	A	4	2	200	100	4.5	2	100	100		B5	P
RENS1374D	642 310 000	G ₂	4	18	250	250	24	2.5	100	100		B5	P
RENS1818	542 310 000	A	20	2	200	100	3	2	100	100		B5	P
RENS1819	542 310 000	A	20		200	60	4	1	100	60		B5	P
RENS1820	542 310 000	A	20	2	200	60	4	1	100	60		B5	P
RENS1823D	642 310 000	G ₂	20	18	200	200	20	1.7	100	100		B5	P
RENS1884	642 310 000	G ₂	20	2	200	100	3	2.4	100	100		B5	P
RENS1894	642 310 000	G ₃	20	2.2	200	100	4	1.8	100	100		B5	P
RES094	542 300 000	A	4	2	200	75	4	7	100	75		B5	P
RES164	642 350 000		4	11.5	250	75	12	1.4	100	75		B5	P
RES174D	642 300 000	G ₃	4	19	250	150	12	1.3	100	100		B4	P
RES364	642 350 000		4	2.5	300	200	20	1.7	100	100		B5	P
RES374	642 350 000		4	42	300	200	20	1.5	No Data Available			B5	P
RES964	642 350 000		4	15	250	250	36	2.8	No Data Available			B5	P
RFG5	003 200 000	D ₁	6						D			F8	R
RFP8/14	041 231 500	A ₁	4	20	400	250	35	4	100	PenLF	4	B7	P
RFP8/14	542 310 000	A ₁	4	20	400	250	35	4	100	PenLF	4	B5	P
RG250/1000	002 300 000	D ₁	4				120		REC		30mA	B4	R
RG250/3000	280 300 000		2.5				120		REC		30mA	UX4	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
RGN354	802 300 000		4				15		D			B4	R
RGN504	892 300 000		4				15		D			B4	RR
RGN564	802 300 000		4				30		REC		15mA	B4	RR
RGNI054	892 300 000		4				30		REC		15mA	B4	RR
RGNI064	892 300 000		4				30		REC		15mA	B4	RR
RGNI074	892 300 000		4				60		REC		20mA	B4	RR
RGNI304	802 300 000		4				60		REC		20mA	B4	R
RGNI503	892 300 000		2.5				30		REC		15mA	B4	RR
RGN2004	892 300 000		4				60		REC		20mA	B4	RR
RGN2504	892 300 000		4				60		REC		20mA	B4	RR
RH	061 231 500	G ₁	4	1.7	250	100	7.9	7	200	100	7.4	B7	P
RK10	265 300 000		7.5	100	350		50		100			UX4	T
RK15	264 300 000		2.5	33	250		22	2.35	100		2.3	UX4	T
RK16	264 130 000		2.5	28	250		26	2.6	100		2.6	UX5	T
RK19	200 300 000	D ₁ D ₂	7.5				120		REC		30mA	UX4	RR
RK21	200 300 000	D ₁	2.5				120		REC		30mA	UX4	R
RK24	364 200 000		2	13.5	175		8	1.6	100		1.6	UX4	T
RK39	254 130 000	A ₁	6	14	300	250	83	6.5	100	PenLF		UX5	P
RK60	200 300 000	D ₁ D ₂	5				120		REC		30mA	UX4	RR
RL7	265 114 113		6	1.7	250	250	10.0	7.7	100	150	7.0	B9G	P
RL16	241 600 003		6	2.5	250		10	6.5	100		5	B9G	T
RL18	123 000 000		6	3.3	200		7.5	2.9	100		2.9	B3G	T
RL37	244 664 413		6	1.5	250		10	9	100		7	B9G	T
RO337	892 300 000		2.5				30		REC		15mA	B4	RR
RO423	892 300 000		2.5				30		REC		15mA	B4	RR
RO431	892 300 000		4				60		REC		20mA	B4	RR
RO443	892 300 000		4				60		REC		20mA	B4	RR
RO446	892 300 000		4				30		REC		15mA	B4	RR
RO452	892 300 000		4				60		REC		20mA	B4	RR
RO457	892 300 000		4				60		REC		20mA	B4	RR
RO481	802 300 000		4				120		REC		30mA	B4	R
RO534	892 300 000		5				60		REC		20mA	B4	RR
RO771	802 300 000		7.5				120		REC		30mA	B4	R
RS	802 310 000		3				60		REC		20mA	B5	R
RS1009	245 134 200	A ₁ A ₂	6	25	400	250	30	3.4	No Data Available			B7A	PP
RS1019	245 134 200	A ₁ A ₂	6	20	40	250	20	2.5	No Data Available			B7A	PP
RRAF	642 300 000		4	2	125		4	1.45	100		1.4	B4	T
RRBF	642 300 000		4	2.5	125		10	1.25	100		1.2	B4	T
RSAF	542 300 000	A	4	1	150	75	4.5	1.25	150	75	1.25	B4	T
RT1-2	642 300 000		4	2.6	125		26	2.5	100		2.5	B4	T
RT2	642 300 000		4	4	200		18	1.75	150		1.75	B4	T
RT3	642 300 000		4	2.3	300		15	2.85	100		2.8	B4	T
RTR4341	061 231 500	G ₁	21	2.2	125	8	8	8	100	125	8	B4	P
RTR4342	005 231 600	G ₁	21	5.8	125	125	48	9	100	125	8	B7	P
RV120/250	892 300 000		4				60		REC		20mA	B4	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
RV120/350	892 300 000		4				60		REC		20mA	B4	RR
RV120/350S	023 080 090		4				60		REC		30mA	8SC	RR
RV120/500	892 300 000		4				60		REC		20mA	B4	RR
RV120/500S	023 080 090		4				60		REC		20mA	8SC	RR
RV200/600	892 300 000		4				120		REC		20mA	B4	RR
RV210	042 310 000	A ₁	4	53	400		70	5-8	No Data Available			B5	T
RX21	200 030 000	D ₁	2.5				120		REC		30mA	UX5	R
RX215	389 200 000		2.5				5		D			UX4	RR
RZ	023 100 080		20				60		REC		20mA	8SC	R
SO1	264 300 000		15	40.5	175		21	1.5	100		1.5	UX4	T
SO2	264 300 000		7.4	88	400		55	2.1	100		2.1	UX4	T
S2	542 300 000	A	2	1	125	60	2.25	1.1	125	60	1.1	B4	P
S4V	542 310 000	A	4	1	200	75	1.5	1.15	100	75	1.1	B5	P
S4VA	542 310 000	A	4	1.5	200	100	2.75	2	100	100	2	B5	P
S4VB	542 310 000	A	4	1.5	200	125	4.6	2.5	100	100	2.5	B5	P
SI1A	892 300 000		4				30		REC		15mA	B4	RR
SI1D	892 300 000		4				60		REC		20mA	B4	RR
SI2	542 300 000	A	2	1	100	30	2.5	0.7	No Data Available			Sm4	P
S21	542 300 000	A	2	0	125	75	3.6	1.1	100	75	1.1	B4	P
S22	542 300 000	A	2	0	125	75	4	1.75	125	75	1.75	B4	P
S23	542 300 000	A	2	1.5	150	75	2.8	1.1	150	75	1.1	B4	P
S24	542 300 000	A	2	1	150	75	3.2	1.4	150	75	1.4	B4	P
S30C	642 300 000		4	38	300		50	5	100		5	B4	T
S30D	642 300 000		2	38	300		50	5	100		5	B4	T
S207	542 300 000	A	2	1.5	200	100	3	0.7	100	100	0.7	B4	P
S208	542 300 000	A	2	0	200	100	2	0.8	100	100	0.8	B4	P
S209	023 010 560	G ₁	2	0.5	125	125	2.4	0.7	125	125	0.7	8SC	P
S210	642 300 000	G ₂	2	1.5	150	90	3	1.2	100	90	1.0	B4	P
S213	542 300 000	A	2	0.5	150	90	3	1.3	100	90	1.3	B4	P
S215	542 300 000	A	1	1.0	150	90		0.85	100	90	1.5	B4	P
S215A	542 300 000	A	2	1	150	60	2	1.1	150	60	1.1	B4	P
S215B	542 300 000	A	2	1	150	60	1.5	1.2	150	60	1.2	B4	P
S215VM	542 300 000	A	2	1.4	150	60	1.0	0.8	150	60	1.4	B4	P
S217	542 300 000	A	2	0.5	150	150	2.3	1.7	100	150	1.7	B4	P
S218	041 230 500	A	2	0.5	150	150	3	1.85	100	150	1.8	B7	P
S220	542 300 000	A	2		150	75	4	1.1	150	75	1.1	B4	P
S310A	265 113 000	G ₁	10	3	125	150	5.5	1.9	100	100	1.9	UX6	P
S311A	265 130 000	G ₁	10	15	125	150	30	2.8	100	100	2.8	UX5	P
S328A	265 113 000	G ₁	7.5	3	125	150	5.5	1.9	100	100	1.9	UX6	P
S239A	265 130 000	G ₁	7.5	15	125	150	30	2.8	100	100	2.8	UX5	P
S329L	265 113 000	G ₁	7.5	15	125	125	30	2.8	No Data Available			UX6	P
S406/7	542 300 000	A	4	2	200	100	1.5	1	100	100	1	B4	P
S408	542 300 000	A	4	1.5	175	75	4	0.7	100	75		B4	P
S409	542 300 000	A	4	1.5	175	75	4	0.8	100	75		B4	P
S410	542 300 000	A	4	1.5	175	75	4	1.0	100	75		B4	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
S415N	542 310 000	A	4	2	200	100	6	1	100	100	1	B5	P
S420	061 231 500	G ₁	4	3	250	250	11.5		100	200		B7	P
S430N	542 310 000	A	4	1.3	200	100	1.5	0.9	100	100	3	B5	P
S431N	542 310 000	A	4	1.5	225	100	3.0	2.0	100	100		B5	P
S432N	023 110 560	G ₁	4	3	225	100	2.5	2.2	100	100		8SC	P
S435n	542 310 000	A	4	2	200	100	3.0	2.3	100	100	2.3	B5	P
S440	061 231 500	G ₁	4	2.35	250	250	4.1	3.45	100	200	3.4	B7	P
S493	542 310 000	A	4	2	200	100	4		100	100		B5	P
S495	542 310 000	A	4	2	200	100	6	2.5	100	100	2.5	B5	P
S617	023 110 560	G ₁	6.3	3	225	100	2.5	2.2	100	100		8SC	P
S620	023 110 560	G ₁	6.3	2.5	225	100	3.5	2.0	100	100		8SC	P
S629	023 110 560	G ₁	6.3	2.5	225	100	3.5	2.0	100	100		8SC	P
SI323	061 231 500	G ₁	13	3	200	100	8	1.85	100	100	1.85	B7	P
SI323	023 110 560	G ₁	13	3	200	100	8	1.85	100	100	1.85	8SC	P
SI324	061 231 500	G ₁	13	2	200	100	3	2.37	100	100	2.3	B7	P
SI327	023 110 560	G ₁	13	2.5	250	100	3.5	2.0	100	100		8SC	P
SI328	023 110 560	G ₁	13	2	200	100	3	2.37	100	100	2.3	BSC	P
S2018	041 231 500	A	20	3	200	60	4	1.2	100	60	1.2	B7	P
S2018	542 310 000	A	20	3	200	60	4	1.2	100	60	1.2	B5	P
S2035N	542 310 000	A	20	2.5	225	100	3.5	2.0	100	100		B5	P
S2043	542 310 000	A	20	2.5	250	100	5	2.0	100	100		B5	P
S4020A	254 300 000		2	1	125		1.3	0.6	100		0.6	UX4	T
S4020B	642 300 000		2	1	125		1.3	0.6	100		0.6	UX4	T
S4021A	264 300 000		4	8	125		20	3	100		3	UX4	T
S4021B	642 300 000		4	8	125		20	3	100		3	B4	T
S4022AR	236 400 000		4	4.5	125		5	2.2	100		2.2	UX4	T
S4022B	642 300 000		4	4.5	125		5	2.2	100		2.2	B4	T
S4045A	642 350 000		5	70	250	75	45	1.45	100	60	1.45	B5	P
SD	892 310 000		5						D			B5	DD
SD2	642 300 000		2	1.5	150		2.2	1.4	150		1.4	B4	T
SD6	*82 310 *00		6				5		D		6mA	B7G	R
SD6I	123 000 000	D ₁	6						D			B3G	D
SD917A	402 013 060		6.3	3.6	100		1.4	2.7	100		2.7	B8A	T
SE21I	542 300 000	A	2	1	150	75	1	1.5	150	75	1.5	B4	P
SE21IC	542 300 000	A	2	1.0	150	75	1	1.5	150	75	1.5	B4	P
SE2018	542 310 000	A	20	3	200	60	4	1.2	100	60	1.2	B5	P
SE2118	542 310 000	A	20	24	200	100	3	3	100	60	3	B5	P
SG2	542 300 000	A	2		150	75	2.5	1	100	75	1	B4	P
SG215	542 300 000	A	2	1.5	150	75	2.7	1	100	60	1	B4	P
SG215A	542 300 000	A ₁	2	1.5	125	75	1.5	1.1	125	60	1.1	B4	P
SG215VM	542 300 000		2	0	125	75		1.4	125	80	1.4	B4	P
SG220	542 300 000	A	2	1.5	150	75	2.4	1.5	100	75	1.5	B4	P
SG220SW	652 300 000	G ₁	2	1.5	150	75	2.4	1.5	150	75	1.5	B4	P
SGAI	542 310 000	A	4		200	100	6	3	100	100	3	B5	P
SN954	082 813 080		6.3				30		REC		15mA	B8A	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
SN1039A	412 365 100		6-3	1-4	100	100	7-0	5-1	100	100	5	B7G	P
SP2	041 230 500	A	2	0	150	150	3	1-8	150	150	1-8	B7	P
SP2B	061 230 500	G ₁	2	1	150	150	2-6	0-8	150	150	0-8	B7	P
SP2B(S)	032 004 560		2	0-5	150	150	2-6	0-8	150	150	0-8	8SC	P
SP2D	061 230 500	G ₁	2	1	150	150	1-4	1-7	150	150	1-7	B7	P
SP2D	542 300 000	A	2	1	125	125	1-45	1-7	125	100	1-7	B4	P
SP2V	041 230 500	A	2	0	150	75	2-9	1-1	100	75	1	B7	P
SP4(TUNG)	061 231 500	G ₁	4	2	200	100	3	2-3	100	100	2-3	B7	P
SP4	542 310 000	A	4	2	200	100	3	2-3	100	100	2-3	B5	P
SP4A	041 231 500	A	4	2	250	100	3	2-4	100	100	2-4	B7	P
SP4(MUL)	041 231 500	A	4	2	200	100	3	2-3	100	100	2	B7	P
SP4B	061 231 500	G ₁	4	2-4	250	250	4	3-4	100	100	3-4	B7	P
SP4C	023 110 560	G ₁	4	2-4	250	250	4	3-4	100	100	3-4	8SC	P
SP4S	023 110 560	G ₁	4	2	250	100	3	2-5	100	PenLF	2-5	8SC	P
† SP6	412 361 500		6	2 1-5	250 200	250 150	10 4	7-5 6-4	100 100	PenLF PenLF	5 5	B7G	P
SP6S	023 110 560	G ₁	6	2	250	100	3	2	100	100	2	8SC	P
SP13	061 231 500	A	13	2	200	100	3-3	2-2	100	100	2-2	B7	P
SP13	023 110 560	G ₁	13	2	200	100	3-3	2-2	100	100	2-2	8SC	P
SP13B	061 231 500	G ₁	13	1-5	200	200	2	4	100	150	4	B7	P
SP13C	061 231 500	G ₁	13	2-2	200	200	2-5	2-8	100	150	2-8	B7	P
SP13S	023 110 560	G ₁	13	2	150	100	3	2-4	100	100	2-4	8SC	P
SP20	542 310 000	A	20		200	100	4-5	3-5	100	100	3-5	B5	P
SP22	206 510 030	G ₁	2	1	125	125	1-1	1-2	125	100	1-2	M08	P
SP35	023 110 560	G ₁	35	8	200	200	41	7	100	PenLF	7	8SC	P
SP41	216 510 030	G ₁	4	1-5	200	200	10-9	8-5	100	150	8	M08	P
SP42	216 510 030	G ₁	4	1-3	200	125	20	8-4	100	100	8	M08	P
SP61	216 510 030	G ₁	6	1-5	200	200	10-9	8-5	100	150	8	M08	P
SP62	216 510 030	G ₁	6	1-25	200	100	16	9	200	100	8	M08	P
SP65	023 110 560	G ₁	6	2	250	100	3	2-1	100	100	2-1	8SC	P
SP141	206 500 030	G ₁	1-4	1	90	90	1-3	0-75	80	90	0-75	M08	P
SP181	216 510 030	G ₁	18	1-5	200	200	10-9	8-5	100	PenLF	8	M08	P
SP210	041 230 500	A	2	1	125	125	1-1	1-2	125	100	1-2	B7	P
SP215	041 230 500	A	2	1-5	150	80	2-1	1-6	100	75	1-6	B7	P
SP220	642 300 000		2	12	150		14	3	100		3	B4	T
SP1320	041 231 500	A	13	1-5	250	100	4-4	2-0	100	100	2	B7	P
SP2220	041 231 500	A	22	3	250	200	4-9	2-65	100	150	2-6	B7	P
SPT2	041 230 500	A	2	1	125	125	2-8	1-5	125	100	1-5	B7	P
SPT4A	041 231 500	A	4	1-5	250	100	2	2-3	200	100	2-3	B7	P
SPTA	061 231 500		13	2-5	200	100	2-2	1-4	100	100		B7	P
SPTS	041 231 500	A	13	1-5	250	100	2	3	100	100	3	B7	P
SR2	642 300 000		2	16	200		10	3	100		3	B4	T
SR4	642 310 000		4	20	250		20	4	100		4	B5	T
SR54451	245 134 200	A ₁ A ₂	6	25	400	250	30	3-4	No Data Available			B7A	PP
SS210	542 300 000	A	2	1	150	75	0-6	1-4	150	75	1-4	B4	P
SS210C	542 300 000	A	2	1	150	75		1-4	150	75	1-4	B5	T

† See note on Page 5 regarding Back Emission.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
SS210DDT	682 390 000	G ₁	2	5.5	150		2.4	1.4	100		1.4	B5	DDT
SS210D	642 300 000		2	4.5	150		2	1.6	100		1.6	B4	T
SS210HF	642 300 000		2	4	150		1	0.75	100		0.75	B4	T
SS210HL	642 300 000		2	1.5	150		21.4	125			1.4	B4	T
SS220PA	642 300 000		2	6	150		8	3.5	100		3.5	B4	T
SS220P	642 300 000		2	12	150		6	1.5	100		1.5	B4	T
SS220SP	642 300 000		2	12	150		14	3.5	100		3.5	B4	T
SS240SP	642 300 000		2	12	150		15	3.5	100		3.5	B4	T
SS2018	542 310 000	A	20	3	200	100	3	3	100	90	3	B5	P
SU25	*2* 0** 3*0	D ₁	2						D			A08	D
SU45	112 311 100	D ₁	4				30		REC		15mA	B7G	R
SU61	023 000 000	D ₁	6						D			B3G	D
SU2130	002 300 000	D ₁	2				2		D			B4	R
SU2150	002 300 000	D ₁	2 (2.5)				2		D			B4	R
SU2150A	002 300 000	D ₁	2 (2.5)				5		D		2mA	B4	R
SU3130	002 300 000	D ₁	2						D			B4	D
SWG2	652 300 000	G ₁	2		150	75		1.5	100	75	1.5	B4	P
SW1	802 300 000		4				30		REC		15mA	B4	R
T2M05	672 344 100		6	{ 0.85 3	100		8.5	5.3	100		5.3	B7G	TT
T4D	123 000 000	D ₁	4		150		5	4.5	100		5.3		
T5D	123 000 000	D ₁	6						D			B3G	D
TI3U	023 100 060	G ₁	13	4	200		5.9	2.6	100		2.6	8SC	T
T41(Mazda)	216 040 030		4		100		30	2KΩ	No Data Available			M08	Thyratron
TI34	542 300 000	A	4	1	150	75	5	1.3	100	75		B4	P
TI36	642 300 000		4	8	200		6	1.6	100		1.6	B4	T
TI51	642 300 000	G ₁	4	15	200	150	12	1.8	100	100		B4	P
T204	023 004 060		2	1	125		1.8	0.6	125		0.6	8SC	T
T435	023 100 060	G ₁	4	5	225		6	2.5	100		2.4	8SC	T
T635	023 100 060	G ₁	6.3	16	250		20	3.2	100		3	8SC	T
TI335	023 100 060	G ₁	13	4.5	225		6	2.5	100		2.4	8SC	T
TB13	802 310 000		13						D			B5	D
TB032	642 300 000		2	30	150		12	1.5	100		1.5	B4	T
TB052	642 300 000		2	15	150		7	1.2	100		1.2	B4	T
TB062	642 300 000		2	10.5	150		13	2	100		2	B4	T
TB102	642 300 000		2	4	150		5	1.25	100		1.2	B4	T
TB122	642 300 000		2	4.5	150		6	3.5	100		3.5	B4	T
TB172	642 300 000		2	4.5	150		4	1.4	100		1.4	B4	T
TB282	642 300 000		2	1.5	150		2	1.3	125		1.3	B4	T
TB402	446 230 700		2	0	150		6		150			B7	TT
TB452	542 300 000	A	2	0	150	75	2	1.5	150	75	1.5	B4	P
TB552	542 300 000	A	2	0	150	75	4	1.5	150	75	1.5	B4	P
TB622	542 300 000	A	2	0	150	90	2	1.4	100	90	1.4	B4	P
TB9920	642 310 000		20	1.5	200		0.2	4	150		4	B5	T
TBC14	809 231 600	G ₁	4	7	250		4	2	100		2	B7	DDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
TBC113	809 231 600	G ₁	13	5	200		4	3-6	100		3-6	B7	DDT
TC05-25	642 300 000		4		400		65	2-2	No Data Available			B4	T
TC432	642 300 000	S	2	4-5	150	150	9-5	2-5	100	100	2-5	B4	P
TC432	642 350 000		2	4-5	150	150	9-5	2-5	100	100	2-5	B5	P
TD044	642 300 000		4	40	250		40	3	100		3	B4	T
TDD1C	023 189 060		13	5-0	200		4-0	2-0	100		2-0	B7	DDT
TDD2	682 390 000	G ₁	2	5-5	150		2-5	1-4	100		1-4	B5	DDT
TDD2A	682 390 000	G ₁	2	1-5	150		1-95	1-2	125		1-2	B5	DDT
TDD4	908 231 600	G ₁	4	7	250		4	2	100		2	B7	DDT
TDD13C	809 231 600	G ₁	13	5	200		4	2	100		2	B7	DDT
TDD25	809 231 600	G ₁	25	1	100		4	2	100		2	B	DDT
TE2	028 090 310		26				30		REC		15mA	A08	RR
TE3	028 090 310		12				30		REC		15mA	A08	RR
TE5	028 090 310		6-3				30		REC		15mA	A08	RR
TE094	642 310 000		4	16	200		12	1-3	100		1-3	B5	T
TE104	642 300 000		4	26	400		61	4	100		4	B4	T
TE244	642 310 000		4	3-5	200		6	2-4	150		2-4	B5	T
TE384	642 310 000		4	2	200		3	1-5	150		1-5	B5	T
TE424	542 310 000	A	4		200	100	3	2	100	100	2	B5	P
TE434	642 350 000		4	14	250	250	36		100	PenLF		B5	P
TE464	041 231 500	A	4		200	100	3	2-5	100	100	2-5	B7	P
TE474	041 231 500	A	4	1-5	200	100	4-5	2	100	100	2	B7	P
TE534	642 310 000	S	4	15	250	250	24		100	PenLF		B5	P
TE564	041 231 500	A	4	1-5	200	100	4-5	3-2	100	100	3-2	B7	P
TE634	045 231 600		4	22	250	250	36		100	100		B7	P
TE994	642 310 000		4	1-6	250		4	4	200		4	B5	T
TF64	061 231 500	G ₁	4	2-75	250	250	11	2	200	150	2	B7	P
TF104	642 300 000		4	36	400		61	4	100		4	B4	T
TH1	276 454 300		6-3	{ 4	250				100	60		B8B	TH
				{ 1-5	250				100	100			
TH2	645 230 700	G ₁	2	{ 1-5	150		0-95	1-2	100	60	1-2	B7	TH
				{ 1-5	250	75	4		125	60	0-7		
TH4	645 231 700	G ₁	4	{ 2	150		6	1-2	150	60	1-2	B7	TH
				{ 2	200	100	3-5		200	75	3-0		
TH4A	645 231 700	G ₁	4	{ 4-6	100		5	2-0	125	60	6	B7	TH
				{ 2	250	100	3-5		200	100	3-0		
TH4B	645 231 700	G ₁	4	{ 3	100		9	3-8	100	60	5-5	B7	TH
				{ 2-5	250	100	3-25		200	100	3-5		
TH13C	645 231 700	G ₁	13	{ 2	150		6	1-2	100	60	1-2	B7	TH
				{ 1-5	250	75	4-0	1-8	200	75	3-6		
TH21C	645 231 700	G ₁	21	{ 2	125		6	1-2	100	60	1-2	B7	TH
				{ 1-5	250	75	4	1-8	200	75	3-0		
TH22C	645 231 700	G ₁	29	{ 2	125		5	6	100	60	5	B7	TH
				{ 2	250	100	3-5		200	75	3-0		
TH29	645 231 700	G ₁	29	{ 2	100		12-0	4-5	100	60	5	B7	TH
				{ 2	250	100	3-5		200	75	3-0		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
TH30	645 231 700	G ₁	30	{ 2	100 125		9.5	5.5	100 100	60 60	5.5	{ B7	TH
TH30C	645 231 700	G ₁	29	{ 2.5	250 250	100 100	3.5 3.25		100 100	100 100		{ B7	TH
TH31	217 640 530	G ₁	4	{ 3	100 250		10.2 3	4 3	100 100	60 90	5.3 3	{ M08	TH
TH41	217 640 530	G ₁	4	{ 3	100 250		10.2 3	4 3.1	100 100	60 100	5.3 3.1	{ M08	TH
TH62	027 546 310	G ₁	6	{ 2	100 250		4.4 3	2.4	100 200	60 100	2.2 1.2	{ A08	TH
TH233	217 640 530	G ₁	23	{ 2	100 150		14.0 2.6	2.1 3	100 100	60 90	4.0 3	{ M08	TH
TH2320	645 231 700	G ₁	23	{ 0	100 150	100 100	4.5 3	5.3	100 100	60 100	5.3 3.8	{ B7	TH
TH2321	645 231 700	G ₁	23	{ 0	100 150		4.0 2.6	5.3 3.0	100 100	60 100	5.3 3.0	{ B7	TH
TL54	045 231 600		4	{ 12.5	250	250	70		100	PenLF		{ B7	P
§ TMO5	672 344 100		6	{ 0.85	100 150		8.5 5	5.3 4.5	100 100		5.3 5.3	{ B7G	TT
TM12	412 344 600		6.3	{ 1.5	150		15	12	100		12	{ B7A	T
TP4	571 231 640	G ₁	4	{ 3	125 250		1.5 5.5	1.4 1.6	100 200	60 PenLF	1.4 1.5	{ B9	TP
TP22	571 230 640	G ₁	2	{ 1	100 125		0.8 1.2	1.2 1.0	100 150	60 60	1.4 1.3	{ B9	TP
TP23	645 230 700	G ₁	2	{ 1.0	100 125	60	4.5 1.0	2.1 1.0	100 125	60 60	2.1 1.2	{ B7	TP
TP25	207 640 530	G ₁	2	{ 1.0	100 125	0 60	3.7 1.0	1.6 1.0	100 125	60 60	1.7 1.0	{ M08	TP
TP26	207 640 530	G ₁	2	{ 1.0	125 125		2.2 1.5	1.5	125 125	60 75	1.3 1.5	{ M08	TP
TP230	561 230 740	G ₁	2	{ 0	100 150		20.0 4.3	1.1 1.3	100 150	60 75	1.1 1.3	{ B9	TP
TP443	642 350 000		4	{ 22	250	250	36	5	100	PenLF	5	{ B5	P
TP1340	571 231 640	G ₁	13	{ 6.0	250 250		2.0 6.5	1.4 2.1	150 100	60 100	0.14	{ B9	TP
TP2620	571 231 640	G ₁	26	{ 2.5	250 250		1.5 6.5	1.4 3.4	100 100	60 150	1.4 3.4	{ B9	TP
TS49	261 504 130		20	{ 4.5	225	150	15	6	100	100	5.2	{ B8B	P
TS51	412 365 100		6	{ 2.3	150	150	7	4.3	100	100	4	{ B7G	P
§ TS52	672 344 100		6	{ 0.85	100 150		8.5 5	5.3 4.5	100 100		5.3 5.3	{ B7G	TT
TS53	541 236 **1		18	{ 1.8	200	100	15	10	100	100	8	{ B9A	P
TS54	541 236 **1		6.3	{ 1.7	200	125	10	9	100	100	8	{ B9A	P
TSE4	061 231 500	G ₁	4	{ 2.5	250	150	8	14.5	100	100		{ B7	P
TSP4	061 231 500	G ₁	4	{ 2.5	200	200	8.0	4.7	100	150	4.7	{ B7	P
TT4	642 310 000		4	{ 16	250		20	3.2	100		3.2	{ B5	T

§ See note on Page 5 regarding Grid Bias.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
TT4A	642 310 000		4	9	250		20	4.1	100		4.1	B5	T
TT11	020 450 310	A	6	11	250	150	30	3.5	100	100	3.5	A08	P
TT12	204 531 102	A	19	13	250	250	72	6	100	100	6	B9G	P
TT14	204 051 103	A	6	13	250	250	72	6	100	100	6	B9G	P
TT15	241 657 143		6	14	250	150	30	3.9	100	100	3.9	B9G	PP
TT19	241 657 143		19	16.5	250	150	30	3.9	100	100	3.9	B9G	PP
TT20	245 134 200	A ₁ A ₃	6	17	400	200	20	2.5	No Data Available			B7A	PP
TV03-10	442 310 000	A ₁ A ₁	6	17	300		17	3.2	100		3	B5	TT
TW1	802 310 000		20				60		REC		20mA	B5	R
TW2	892 310 000		30				60		REC		20mA	B5	RR
TX4	645 231 700	G ₁	4	{ 5.0 1.5	150 300		9.0 5.5	1.5	150 200	60 90		B7	TH
TX21	645 231 700	G ₁	21	{ 2.0 1.5	150 250	90	15 5.5	2.5	100 200	60 75	1.5 3.0		
TX41	645 231 700	G ₁	4	{ 3 2.5	100 250	100	9 3.25	3.8	100 250	60 100	5	B7	TH
U4C	642 300 000		4	12	200		35	3.2	100		3.2	B4	T
U4E	642 300 000		4	40	400		45	4	No Data Available			B4	T
U4F	642 300 000		4	40	400		45	4	No Data Available			B4	T
U5	892 300 000		5				15		REC		15mA	B4	RR
U8	892 300 000		7.5				60		REC		20mA	B4	RR
U9	892 300 000		4				30		REC		15mA	B4	RR
U10	892 300 000		4				30		REC		15mA	B4	RR
U12	892 300 000		4 (5)				60		REC		20mA	B4	RR
U12/14	892 300 000		4 (5)				60		REC		30mA	B4	RR
U14	892 300 000		4				60		REC		20mA	B4	RR
U15	802 300 000		6				120		REC		30mA	B4	R
U16	002 300 000	D ₁	2				5		REC		5mA	B4	R
U17	002 300 000	D ₁	5				30		REC		15mA	B4	R
U18	892 300 000		4 (5)				120		REC		30mA	B4	RR
U18/20	892 300 000		4 (5)				120		REC		30mA	B4	RR
U19	002 300 000	D ₁	4 (5)				120		REC		40mA	B4	R
U19/23	002 300 000	D ₁	4				120		REC		30mA	B4	R
U20	892 300 000		4 (5)				60		REC		20mA	B4	RR
U21	002 300 000	D ₁	2				5		REC		5mA	B4	R
U22	200 000 030	D ₁	2 (3)				5		D			M08	R
U22FH	200 000 030	D ₁	2						D			M08	D
U23	002 300 000	D ₁	4 (5)				120		REC		30mA	B4	R
U24	030 000 200	D ₁	2				1.0		REC		2mA	A08	R
U25	023 000 000	D ₁	2						D			B3G	D
U26	391 221 800		13				60		REC		20mA	B7	RR
U26	231 232 132	D ₁	2						D			B9A	D
U29	002 300 000	D ₁	2				15		REC		30mA	B5	R
U30	391 221 800		13				60		REC		30mA	B7	RR
U30/250	802 300 000		4				30		REC		15mA	B4	R
U31	020 080 310		26				120		REC		50mA	A08	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
U33	002 300 000	D ₁	2				3		D			B4	R
U35	020 000 030	D ₁	1.4				2		D			A08	R
U37	023 000 000	D ₁	1.4				0.5		D			B2G	D
U41	*2* 0*0 3*0	D ₁	1.25				1		D			A08	D
U43	023 000 000	D ₁	6				0.5		D			B2G	D
U50	020 908 030		5 (5.7)				60		REC		30mA	A08	RR
U51	030 908 020		5				120		REC		30mA	A08	RR
U52	030 908 020		5 (5.7)				120		REC		30mA	A08	RR
U52lt	008 090 230		5 (5.7)				120		REC		30mA	A08	RR
U54	030 908 020		5 (5.7)				120		REC		30mA	A08	RR
U60/500	892 300 000		4				60		REC		20mA	B4	R
U65/550	802 300 000		7.5				60		REC		20mA	B4	R
U70	028 090 310		6				30		REC		30mA	A08	RR
U71	020 080 310		30				60		REC		50mA	A08	R
U74	020 080 310		30				120		REC		30mA	A08	R
U76	020 080 310		30				120		REC		60mA	A08	R
U78	802 309 100		6				30		REC		30mA	B7G	RR
U81	009 008 230		6				60		REC		20mA	B8B	RR
U82	209 008 130		6				30		REC		30mA	B8B	RR
U84	009 **8 230		4				30		REC		15mA	B8B	RR
U101	280 008 130		50				120		REC		30mA	B8B	R
U107	281 008 300		40				60		REC		20mA	B7G	R
U120/500	892 300 000		2				120		REC		30mA	B4	R
U134	028 190 310		13				60		REC		20mA	A08	RR
U142	280 000 130		31				60		REC		20mA	B8A	R
U143	020 908 030		4				30		REC		15mA	A08	RR
U145	280 000 130		40				60		REC		60mA	B8A	R
U147	028 090 310		6				30		REC		30mA	A08	RR
U149	209 008 130		6				30		REC		15mA	B8B	RR
U150	280 009 130		6				30		REC		40mA	B8A	RR
U151	023 000 000	D ₁	6						D			B3G	D
U152	001 230 008		19				120		REC		70mA	B9A	R
U153	*** 23* **8	C	17				120		REC		60mA	B9A	R
U154	**1 23* **8		19				120		REC		70mA	B9A	R
U191	0** 080 230	C ₁	19						REC			A08	R
U201	020 080 310		20				60		REC		60mA	A08	R
U251	*** 23* **8	C	15				120		REC		30mA	B9A	R
U281	020 080 310		28				120		REC		80mA	A08	R
U282	001 000 230	D ₁	28				120		REC		36mA	A08	R
U301	0** 080 230	C	30				120		REC		35mA	A08	R
U309	**1 23* **8		20				120		REC		70mA	B9A	R
U319	**1 23* **8		20				120		REC		70mA	B9A	R
U329	*** 23* **8	C	25				120		REC		60mA	B9A	R
U403	201 080 030		40				120		REC		70mA	M08	R
U404	280 *** 130		40				60		REC		60mA	B8A	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
U415	642 300 000		4	10.5	150		5	1.4	100		1.4	B4	T
U418	642 300 000		4	13	150		10	1.6	100		1.6	B4	T
U650	802 300 000		6				30		REC		15mA	B4	R
U709	8*1 23* 9**		6				60		REC		20mA	B9A	RR
U801	128 899 310		80				120		REC		30mA	A08	RR
U2140P	391 221 800		13				60		REC		20mA	B7	RR
U4020	802 310 000		40				120		REC		70mA	B5	R
UAA11	023 189 100		22				5		D			8SC	DD
UAA91	182 310 900		19				5		D			B7G	RR
UAA171	120 813 090		25				5		D			B8B	DD
UABC80	†81 239 146		28	1.0	100		0.8	1.45	100		1.45	B9A	DDDT
UAF21	265 814 130		20	2	250	100	6	2.8	100	100		B8A	P
UAF41	268 154 130		13	2	200	90	5	2	100	100	1.9	B8A	DP
UAF42	268 154 130		13	2	200	90	5	2	100	100	1.9	B8A	DP
UB41	201 908 130		19				5		D		6mA	B8A	RR
UB91	182 310 900		19						D			B7G	DD
UBC1	206 081 930	G ₁	13	1.7	200		3	2	150		2	A08	DDT
UBC41	264 098 130		14	1.6	175		1.5	1.65	150		1.65	B8A	DDT
UBC81	641 238 09*		14	1.5	175		1.5	1.6	100		1.4	B9A	DDT
UBF2	206 581 930	G ₁	12.5	2	250	100	5	1.8	100	150	1.8	A08	DDP
UBF11	892 361 450		20	2	200	75	5	1.8	200	75	1.8	F8	DDP
UBF15	892 361 450		27	2	250	100	12	5	200	100	5	F8	DDP
UBF80	541 236 891		17	2	200	125	5	2.2	100	100	2.0	B9A	DDP
UBF89	541 236 891		19	2	200	100	9	3.8	100	100	3.5	B9A	DDP
UBF171	892 541 360		20	3.2	250	75	6	1.8	100	75		B8B	DDP
UBL1	206 581 930	G ₁	55	11.5	200	200	55	8.5	100	100	8	A08	DDP
UBL3	023 189 560	G ₁	55	6	100	100	29	7.5	100	90	7	8SC	DDP
UBL21	264 598 130		55	13	200	200	55	8	100	100	7	B8B	DDP
UBL71	264 589 130		55	5.2	250	250	44	9.5	100	100	0.7	B8B	DDP
UC92	602 304 100		9.5	1.0	200		11.5	6.4	200		6.4	B7G	T
UCC84	147 234 116		21	1.5	90		12.0	6.0	100		6.0	B9A	TT
UCC85	641 237 410		26	2.1	200		10.0	5.8	100		5	B9A	TT
UCF12	642 371 450		20	1.0	100			3.0	100	60	3.0	F8	TP
				2.0	200	100	5.0	2.0	200	100	2.0		
UCF80	645 237 114		19	2.0	100		14.0	5.0	100	60	5.0	B9A	TP
				2.0	175	175	10.0	6.2	100	150	6.0		
UCH4	217 544 630	G ₁	20	2	100		6	3	80	60	3.2	A08	TH
				2	200	100	5.2	2.2	100	100	2.2		
UCH5	123 644 570	G ₁	20	2	100		6.3	2.7	100	60	2.2	8SC	TH
				2	250	100	6.5	2.6	100	150	2.6		
UCH11	642 371 450		20	2	100		5	2.4	100	60	1.8	F8	TH
				2	250	100	4.7	2.5	200	100	2.5		
UCH21	276 454 131		20	2	100		6.4	2.2	100	60	3.2	B8B	TH
				2	200	90	5.2	2.2	100	90	2.2		
UCH41	276 454 130		14	2	100		6.4	2.2	100	60	2.8	B8A	TH
				2	200	90	2.7	1.5	100	75	1.5		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
UCH42	276 454 130		14	{ 2.0 2.0 2.0 2.0	100 175 100 175		5 8 5 8	2.0 2.2 2.0 2.2	100 100 100 100	60 75 60 75	2.0 2.0 2.0 2.0	{ B8A B8A B8B	TH
UCH43	276 454 130		14	{ 2.0 2.0 2.0 2.0	100 175 100 175		5 8 5 8	2.0 2.2 2.0 2.2	100 100 100 100	60 75 60 75	2.0 2.0 2.0 2.0	{ B8A B8A B8B	TH
UCH71	276 454 131		20	{ 2.0 2.0 2.0 2.0	100 200 100 200		16.4 90 5.2 5.2	2.2 2.2 2.2 2.2	100 100 100 100	60 90 60 90	3.2 2.2 3.7 2.2	{ B8B B8B B9A	TH
UCH81	541 237 464		19	{ 0 2.6 2.0 2.5	100 200 200 200		13.5 7.6 3 2	3.7 2.4 3 0.7	100 100 100 100	60 100 60 100	3.7 2.4 2.4 2.4	{ B9A B9A B8B	TH
UCH171	642 544 370		20	{ 2.0 8.5 1.5 7	200 200 200 200		2.0 45.0 0.5 30	2.1 9.0 1.2 8.7	150 100 100 100	60 100 60 100	2.0 7.0 1.2 1.2	{ F8 B9A B9A B9A	TP
UCL11	452 371 460		60	{ 1.0 16 1.5 9.5	175 200 200 175		3.7 35 2.4 30	2.5 6.4 2.5 5.5	100 100 150 100	60 100 60 100	2.5 6.8 2.0 5	{ B9A B9A B9A B4	TP
UCL81	451 237 614		39	{ 1.0 16 1.5 9.5	175 200 200 175		3.7 35 2.4 30	2.5 6.4 2.5 5.5	100 100 150 100	60 100 60 100	2.5 6.8 2.0 5	{ B9A B9A B9A B4	TP
UCL82	414 237 516		50	{ 1.0 16 1.5 9.5	175 200 200 175		3.7 35 2.4 30	2.5 6.4 2.5 5.5	100 100 150 100	60 100 60 100	2.5 6.8 2.0 5	{ B9A B9A B9A B4	TP
UCL83	641 237 154		40	{ 1.0 16 1.5 9.5	175 200 200 175		3.7 35 2.4 30	2.5 6.4 2.5 5.5	100 100 150 100	60 100 60 100	2.5 6.8 2.0 5	{ B9A B9A B9A B4	TP
UD2	642 300 000		2	{ 1.0 16 1.5 9.5	175 200 200 175		3.7 35 2.4 30	2.5 6.4 2.5 5.5	100 100 150 100	60 100 60 100	2.5 6.8 2.0 5	{ B9A B9A B9A B4	T
UDDL71	023 189 560	G ₁	44	10	200	200	60	9	100	100		8SC	DDP
UDH	802 310 000		20				60		REC		20mA	B5	R
UDPI2	023 180 560	G ₁	40	10	200	200	60	9	No Data Available			8SC	DP
UDPI3	026 580 310	G ₁	40	10	200	200	60	9	No Data Available			A08	DP
UDTI	023 189 060	G ₁	15	3	200		10.3	3	150		3	8SC	DDT
UE1	023 100 080		25				60		REC		20mA	S8C	R
UE2	123 180 090		50				60		REC		20mA	8SC	RR
UE13	020 080 310		25				60		REC		20mA	A08	R
UE100	208 0*0 130		50						REC			A08	R
UEL11	452 371 540		48	{ 0 6	100 200	30 200	2.4 22	1.6 5	100 100	60 100	1.6	{ F8	PP
UF5	023 110 560	G ₁	12.5	2.5	100	100	3.2	2.2	100	100	2.2	8SC	P
UF6	023 110 560	G ₁	12.5	20	100	100	3	1.8	100	100	1.8	8SC	P
UF8	206 511 130	G ₁	12	2	200	200		1.6	100	100		B8B	P
UF9	206 501 130	G ₁	12.5	2.5	200	100	6	2.2	100	100	2.2	A08	P
UF10	023 110 560	G ₁	12.5	2.4	200	100	5.5	2.35	100	100	2.3	8SC	P
UF11	602 301 450		15	2	200	75	6	2.2	100	100	2	F8	P
UF14	612 350 140		25	5	200	200	12	7	100	100	7	F8	P
UF15	612 301 450		25	2	200	100	12	5.5	100	100	5.5	F8	P
UF21	265 104 130		12.5	2.5	200	100	6	2.2	100	100	2.2	B8B	P
UF41	26* *54 130		12.5	3	200	125	7.2	2.3	100	150	2.3	B8A	P
UF42	260 154 130		21	2	175	175	10	8.5	100	150	8	B8A	P
UF43	260 154 130		21	2	170	125	15	6.3	100	100		B8A	P
UF80	141 230 651		19	2.0	170	170	10.0	7.4	100	100	7.0	B9A	P
UF85	141 231 651		19	2.0	170	100	9.7	5.9	200	100	6.0	B9A	P
UF89	041 230 651		12.6	2.0	200	100	9	3.8	175	100	4.4	B9A	P
UF172	112 540 360		20	2	200	100	4.5	3	100	100		B8B	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
UF174	112 540 360		30	3	200	150	12	8	100	100		B8B	P
UF175	112 540 360		30	2	200	75	10	5-7	100	75		B8B	P
UH3	023 110 560		13	3	225	100	8	2-2	100	100		8SC	P
UH4	893 200 000		4				5		D			B5	RR
UHP51	023 110 560		13	2-5	225	100	3-5	2	100	100		8SC	P
UHP52	023 110 560		13	2-5	225	100	3-5	2	100	100		8SC	P
UL1	206 540 130		60	11-5	200	200	55	8-5	100	PenLF	8	A08	P
UL2	023 104 560		35	5	200	200	20	7	100	PenLF	6	8SC	P
UL11	602 310 450		45	14	200	75	6	2-2	100	75		F8	P
UL11	602 301 450		45	14	200	200	45	9	100	100		F8	P
UL12	602 301 450		60	8	200	125	75	12	No Data Available			F8	P
UL21	265 004 130		45	13	200	200	55	8	100	PenLF	7	B8B	P
UL22	265 004 130		46	10-0	175	175	61-0	9-0	100	100	8-0	B8B	P
UL41	26* *54 130		45	9	175	175	54-5	9-5	100	100	7	B8A	P
UL43	260 154 130		50	2-6	250	250	36	10	100	100		B8A	P
UL44	200 154 130	A	45	13-5	175	175	28-5	7-0	100	100	6-5	B8A	P
UL46	261 054 130		45	9	175	175	54-5	9-5	100	100	7	B8A	P
UL71	264 500 130		45	5-2	200	200	22	6-5	100	100		B8B	P
UL84	*41 23* 6*5		45	12-5	175	175	70	10	100	100	9	B9A	P
UL171	102 541 360		55	8-5	200	200	45	9	100	100		B8B	P
ULP	642 310 000		13	20	250		27	4	100		4	B5	T
ULP51	623 145 000		40	17	250	250	36	2-5	No Data Available			8SC	P
ULP61	023 100 560	G ₁	33	8	200	200	55	9	No Data Available			8SC	P
UP6	023 100 560	G ₁	35	8	200	200	55	9	100	100		8SC	P
UPI3	026 540 310		35	8	200	200	55	9	No Data Available			A08	P
UP35U	023 100 560	G ₁	35	8	200	200	55	9	No Data Available			8SC	P
UPX	642 310 000		25	34	250		38	7	100		7	B5	T
UP2	023 140 560		25	19	200	100	40	3	100	75	3	8SC	P
UQ80	541 236 114		12	1-0	250	20	0-95	7-0	No Data Available			B9A	N
URI	023 100 080		20				60		REC		60mA	8SC	R
URIC	802 310 000		20				60		REC		60mA	B5	R
UR2	123 180 090		30				60		REC		70mA	8SC	RR
UR3	123 180 090		30				60		REC		65mA	8SC	RR
UR3C	091 231 800		30				60		REC		65mA	B7	RR
UT2	023 100 060	G ₁	15	5	100		6	3	100		3	8SC	T
UTH4	423 164 570	G ₁	17	{ 2-5	100		4	2-0	100	60	2-0	{ 8SC	TH
					200	90	3	0-75	100	90			
					100		4	2	100	60	2-0		
UTH12	423 164 570	G ₁	17	{ 2-5	225	30	3	0-65	No Data Available			{ 8SC	TH
UU2	892 300 000		4				30		REC		15mA	B4	RR
UU3	892 300 000		4				30		REC		30mA	B4	RR
UU4	892 300 000		4				60		REC		35mA	B4	RR
UU5	892 300 000		4 (5)				60		REC		20mA	B4	RR
UU6	208 090 030		4				60		REC		40mA	M08	RR
UU7	208 090 030		4				60		REC		20mA	M08	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
UU8	208 090 030		4				120		REC		50mA	M08	RR
UU9	290 008 130		6				30-0		REC		15mA	B8A	RR
UU10	892 300 000		4				60		REC		20mA	B4	RR
UU12	8*1 23* 9**		6				60		REC		25mA	B9A	RR
UU30/250	892 300 000		4				15		REC		10mA	B4	RR
UU60/250	892 300 000		4				30		REC		15mA	B4	RR
UU120/250	892 300 000		4				60		REC		20mA	B4	RR
UU120/350	892 300 000		4				60		REC		20mA	B4	RR
UU120/500	892 300 000		4				60		REC		20mA	B4	RR
UVG51	123 190 080		30				60		REC		20mA	8SC	RR
UY1	388 028 120		50				120		REC		30mA	A08	R
UY1 (N)	388 028 120		50				120		REC		30mA	A08	R
UY2	023 180 000		26				30		REC		15mA	F8	R
UY3	023 100 080		50				120		REC		30mA	8SC	R
UY4	023 100 080		35				30		REC		15mA	8SC	R
UY11	802 300 100		50				120		REC		50mA	F8	R
UY21	280 80* 130		50				120		REC		70mA	B8B	R
UY22	280 808 130		26				60		REC		20mA	B8B	R
UY31	020 080 310		50				120		REC		30mA	A08	R
UY41	280 000 130		31				60		REC		60mA	B8A	R
UY42	280 *0* 130		31				60		REC		50mA	B8A	R
UY82	**1 23* **8		55				180		REC		35mA	B9A	R
UY85	**1 23* **8		38				120		REC		60mA	B9A	R
UY91	812 380 800		26				60		REC		20mA	B7G	R
UY92	**2 38* 100		26				60		REC		20mA	B7G	R
V2M70	802 309 100		6-3				30		REC		15mA	B7G	RR
V20s	023 100 080		20				60		REC		20mA	8SC	R
V20	802 310 000		20				60		REC		20mA	B5	R
V20/7000	002 300 000	D ₁	4				15		REC		10mA	B4	R
V22/7000	000 010 100	D ₁	6-3				5		D			B8B	D
V25	081 231 900		25				60		REC		20mA	B7	RR
V30	802 310 000		30				120		REC		50mA	B5	R
V30/1	002 300 000	D ₁	2						D			B4	D
V41	*8* **9 230		4				30		REC		15mA	B8B	RR
V51	280 009 130		5				30		REC		15mA	B8A	RR
V61	28* **9 130		6-3				30		REC		15mA	B8A	RR
V99	263 400 000		3	4-5	90		2-5	0-42	580		0-4	UX4	T
V226	041 230 500	A	6	5	400	250	14	3	100	150	3	B7	P
V245	041 240 500	A	3		250	250	16	5	100	PenLF	5	B7	P
V248A	200 540 030	A	2	10	150	150	32	5-2	100	100	5	M08	P
V311	28* *** 130		31				60		REC		20mA	B8A	RR
V312	602 310 000	G ₁	4	4-8	250		6	2-3	100		2-3	B5	T
V339	000 231 600	G ₁	4		250			1-7	100		1-7	B7	T
V453	216 510 030	G ₁	4	1-8	250	100	4-5	2-0	100	100	2	M08	P
V503	642 300 000		4	85	400		100	4-5	100		4-5	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
V872	216 510 030	G ₁	6	4	200	200	6.7	3.35	100	150	3.3	M08	P
V884	412 361 500		6.3	2.5	250	200	8	2.5	100	PenLF	2.5	B7G	P
V914	892 310 000		4						D			B5	DD
V960	002 300 000		4						D			B5	DD
V960	002 300 000	D ₁	4				60		REC		20mA	B4	R
V1120	045 231 000	A	6	9.75	200	200	40	8.7	100	100	7	B7	P
V1120B	040 231 500	A	4 (5)	9.75	200	200	40	8.7	100	100	7	B7	P
V1906	002 300 000	D ₁	4 (5)				60		REC		20mA	B4	R
V1907	002 300 000	D ₁	4				60		REC		20mA	B4	R
V1928	112 311 100	D ₁	4				5		D			B7G	R
V2018	002 300 000	D ₁	20				30		REC		15mA	B4	R
V2118	802 310 000		20				60		REC		20mA	B5	R
V4200	802 300 000		4				120		REC		30mA	B4	R
VBFI1	892 361 450		35	2	200	75	5	1.9	100	80	1.9	F8	DDP
VCI	023 100 060	G ₁	55	2	200		6	3	200		3	8SC	T
VCHI1	642 371 450		40	{ 2.5 0.5 4.5 1.0	100		4	2.0	100	60	2.0	{ F8 F8 B5 B5	TH
VCLI1	452 371 460		90		225	90	3	0.65	100	90			
VDSB	542 310 000	A	16		100		2	2.4	100	60	2.4		
VDS	542 310 000	A	16	2	200	75	5	3	100	75	3	B5	P
VEG51	026 100 080		20		200	75		1.6	100	75	1.6	B5	P
						30	60		REC		20mA	8SC	R
VEL11	452 371 560		90	{ 0 6 2.5	100	30	2.4	1.6	100	100		{ F8 8SC 8SC	PP
VF3	023 110 560	G ₁	55		200	200	22	5	100	100			
VF7	023 110 560	G ₁	55		250	100	5	2	100	100			
VF14	612 350 140		60	4.5	250	250	12	7	100	100	6	F8	P
VG406	892 300 000		4				30		REC		15mA	B4	RR
VG410	892 300 000		4				30		REC		15mA	B4	RR
VG411	892 300 000		4				60		REC		20mA	B4	RR
VG420	892 300 000		4				60		REC		20mA	B4	RR
VG421	892 300 000		4				60		REC		20mA	B4	RR
VG2503	892 300 000		4				30		REC		15mA	B4	RR
VG2908	892 300 000		2.5				30		REC		15mA	B4	RR
VG3008	892 300 000		4				30		REC		15mA	B4	RR
VG3016	892 300 000		4				60		REC		420mA	B4	RR
VG3630	892 300 000		4				120		REC		28mA	B4	RR
VG5006	892 300 000		4				60		REC		20mA	B4	RR
VG5007	023 080 090		4				60		REC		20mA	8SC	RR
VG5107	802 300 090		4				60		REC		20mA	F8	RR
VH2	812 380 100		6				5		D			B7G	D
VH3	142 364 100		6	4.5	125		13	5	100		5	B7G	T
VH5	412 365 100		6	2	175	125	7.7	5.1	100	100		B7G	P
VHP13	041 231 500	A	13	1.5	200	100	4	2	100	100	4	B7	P
VHT2	645 230 600	G ₁	2		125	75			100	75		B7	H

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
VHT2A	645 230 600	G ₁	2	0	125	50			100	60		B7	H
VHT4	545 231 600	G ₁	4	3	200	100	3.6		100	100		B7	H
VHTA	123 164 550	G ₁	13	1.5	250	100	3.2		100	100		8SC	H
VHTA	545 231 600	G ₁	13	1.5	200	100	3.2		100	100		B7	H
VHTS	645 231 500	G ₁	13	3	200	100	2.6		100	100		B7	H
VHTS	545 231 600	G ₁	13	3	200	100			100	100		B7	H
VLI	023 100 560	G ₁	55	14	200	200	25	2.2	100	100		8SC	P
VL4	023 100 560	G ₁	110	8.5	200	200	45	8	100	100		8SC	P
VLS6I	002 300 000	D ₁	2				3		D			B4	R
VMI	2** 00* 300	D ₁	1.4						D			B7G	D
VM4V	542 310 000	A	4	1	200	80	14	2.4	200	75	2.4	B5	P
VMP4	041 231 500	A	4	2	250	100	3	3.5	150	100	3.5	B7	P
VMP4	542 310 000	A	4	1	250	100	5.0	3.5	200	100	3.5	B5	P
VMP4G	041 231 500	A	4	2	250	100	8	2.7	100	100	2.7	B7	P
VMS4	542 310 000	A	4	1	200	80	11	2.1	200	75	2.4	B5	P
VMS4B	542 310 000	A	4	1	200	80	5.2	2.4	200	75	2.9	B5	P
VO2	645 320 600	G ₁	2	0	150	90	1.8		150	90		B7	O
VO2S	0 02 064 560	G ₁	2	0	150	50	2.0		No Data Available			8SC	O
VO4	645 231 500	G ₁	4	1.5	250	75	1.6		100	75		B7	O
VO4S	023 154 560	G ₁	4	1.5	250	75	1.6		100	75		8SC	O
VO6	123 164 560	G ₁	6	3	100	100	4.6		100	100		8SC	O
VO13	645 231 500	G ₁	13	1.5	250	75	1.6		100	75		B7	O
VO13(S)	123 154 560	G ₁	13	1.5	250	75	1.6		100	75		8SC	O
VP2	041 230 500	A	2	1	150	150	3	1.5	150	150	1.5	B7	P
VP2B	061 230 500	G ₁	2	1.6	150	150	1.6	0.65	80	90	0.5	B7	P
(MUL)VP2B	065 231 500	G ₁	2	1.5	150	60	2	1.4	100	60	1.4	B7	H
VP2B	032 004 560		2	15	150	150	2.5	0.65	150	150	0.6	8SC	P
VP2BS	032 010 560	G ₁	2	1	150	150	2.5	0.65	150	150	0.6	8SC	P
VP2D	061 230 500	G ₁	2	1.5	150	75	1.3	2.0	150	75	2	B7	P
VP3	542 310 000	A	4	2	200	100	4.5	2.3	100	100	2.3	B5	P
VP4	041 231 500	A	4	2	200	100	4.5	2.3	100	100	2.3	B7	P
VP4A	542 310 000	A	4	2	200	100	4.25	2.5	100	100	2.5	B5	P
VP4A	041 231 500	A	4	2	200	100	4.25	2.5	100	100	2.5	B7	P
VP4B	061 231 500	G ₁	4	3	250	250	11.5	2	100	100	1.8	B7	P
VP4C	041 231 500	A	4	2	250	250	11.5	4	100	150	4	B7	P
VP4S	023 110 560	G ₁	4	2	250	100	8	1.8	100	90	1.8	8SC	P
VP4S	061 231 500	G ₁	4	3	250	100	8	1.8	100	90	1.8	B7	P
VP6	412 361 500		6	2.5	250	200	8	2.1	100	150	2.1	B7G	P
VP6	061 231 500	G ₁	6	3	250	100	7.5	1.7	200	100	1.7	B7	P
VP6S	023 110 560	G ₁	6	3	250	100	7.5	1.75	200	100	1.7	8SC	P
VPI2D	026 985 310	G ₁	13	3	250	125	9	1.1	100	100	1.1	A08	DDP
VPI3	041 231 500	A	13	1.5	200	100	6.3	3	100	100	3	B7	P
VPI3	061 231 500	G ₁	13	3	200	100	8	2.8	100	100	2.8	B7	P
VPI3A	023 110 560	G ₁	13	2	200	100	4	2.2	100	100	2.2	8SC	P
VPI3B	061 231 500	G ₁	13	2	200	200	9	2.2	200	200	2.2	B7	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
VPI3C	061 231 500	G ₁	13	2	200	200	9	2.2	200	200	2.2	B7	P
VPI3K	061 231 500	G ₁	13	3	200	100	8	2	100	100	2	B7	P
VPI3S	061 231 500	G ₁	13	3	200	100	8	2.8	100	100	2.8	B7	P
VPI3S	023 110 560	G ₁	13	3	200	100	8	2.8	100	100	2.8	8SC	P
VP20	542 310 000	A	20	2	200	100	4	2.2	200	100	2.2	B5	P
VP21	041 230 500	A	2	1	150	60	1.8	1.1	150	60	1.1	B7	P
VP22	206 510 030	G ₁	2	1.5	125	60	1.2	0.8	100	60	0.8	M08	P
VP23	206 510 030	G ₁	2	1.5	125	60	1.4	1.0	100	60	1.0	M08	P
VP41	216 510 030	G ₁	4	2.7	250	250	7.7	2.0	100	150	2	M08	P
VP41	061 231 500	G ₁	4	3.3	250	250	11	2.0	100	200	3.1	B7	P
VPI33	216 510 030	G ₁	13	2.7	150	150	8	2.1	150	100	2.1	M08	P
VP210	041 230 500	A	2	1.5	125	60	1.1	0.82	100	60	0.8	B7	P
VP210	542 300 000	A	2	1.5	125	60	1.1	0.82	125	60	0.82	B4	P
VP215	542 300 000	A	2	1.5	150	75	2	0.7	150	75	1.25	B4	P
VP215	041 230 500	A	2	1.5	150	75	2	0.7	150	75	1.25	B7	P
VP215B	061 230 500	G ₁	2	1.5	125	125	1.5	1.0	125	100	1.2	B7	P
VP215C	041 230 500	A	2	1.5	125	125	1.5	1.0	125	100	1.2	B7	P
VPI320	041 231 500	A	13	2.7	250	100	5	2	100	100	2	B7	P
VPI321	041 231 500	A	13	2.8	200	200	7.4	2	150	150	2	B7	P
VPI322	061 231 500	G ₁	13	2.8	250	200	7.4	2	100	100	2	B7	P
VPT2	542 300 000	A	2	1.5	125	60	1.5	1.1	125	60	1.1	B4	P
VPT2	041 230 500	A	2	1.5	125	60	1.5	1.1	125	60	1.1	B7	P
VPT4	542 310 000	A	4	3	250	100	5.5	2	100	90	2	B5	P
VPT4	041 231 500	A	4	3	250	100	5.5	2	100	90	2	B7	P
VPT4B	041 231 500	A	4	3	250	100	6	3.2	100	90	3.2	B7	P
VPTA	041 231 500	A	13	2	250	100	4.2	2.9	100	100	2.9	B7	P
VPTS	041 231 500	A	13	3	200	100	5.5	2.6	100	90	2.6	B7	P
VS2	542 300 000	A	2	2.5	125	60	2	1.2	100	60	1.4	B4	P
VS24	542 300 000	A	2	1	150	75	2.8	1.5	150	75	1.5	B4	P
VS24K	542 300 000	A	2	1	150	75	2.8	1.5	150	75	1.5	B4	P
VS210	542 300 000		2	2.5	125	60	2.0	1.4	100	60	1.4	B4	P
VS215	542 300 000	A	2	1	150	75	6	0.75	150	75	1.0	B4	P
VSGAI	542 310 000	A	4	1.5	200	100	7	6.15	100	100	6	B5	P
VT1	642 310 000		4	5	200		5	2	100		2	B5	T
VT2	642 310 000		4	2	200		3	1.9	150		1.9	B5	T
VTP4	542 310 000	A	4	3	200	100	5.5	2	100	100	2	B5	P
VX2	061 235 500	G ₁	2	1	150	60	1		150	60		B7	H
VX2S	023 015 560	G ₁	2	1	150	60	1		150	60		8SC	H
VX4	515 231 600	G ₁	4	2	250	75	1.8		100	75		B7	H
VX4S	023 115 560	G ₁	4	2	250	75	1.8		100	75		8SC	H
VX6S	023 115 560	G ₁	6	3	250	100	1.85	4	100	100	4	8SC	P
VX13	515 231 600	G ₁	13	2	250	75	1.8		100	75		B7	P
VX13S	023 115 560	G ₁	13	2	250	75	1.8		100	75		8SC	H
VY1	023 100 080		55				60		REC		20mA	8SC	R
VY2	023 180 000		30				15		D			8SC	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
VY2N	023 100 080		30				15		D			8SC	R
W4	642 300 000		4	7.5	125		3	1.2	100		1.2	B4	T
W4-500	892 300 000		4				60		REC		20mA	B4	RR
W17	265 024 300		1.4	1	90	75	3.5	0.9	80	75	0.9	B7G	P
W21	041 230 500	A	2	1	150	125	2.3	1.0	150	100	1.4	B7	P
W21	542 300 000	A	2	1	150	125	2.3	1.0	150	100	1.4	B4	P
W30	041 231 500	A	13	1	250	250	12	4	250	250	4	B7	P
W31	041 231 500	A	13	3	250	100	8	2.7	100	90	2.7	B7	P
W42	061 231 500	G ₁	4	3	250	100	7.6	1.5	100	100	1.5	B7	P
W61	026 510 310	G ₁	6	3	250	75	8.5	2.9	100	75	2.9	A08	P
W63	026 510 310	G ₁	6	3	250	100	7.6	1.5	100	90	1.5	A08	P
W76	026 510 310	G ₁	13	3	250	100	7.6	1.5	200	100	1.5	A08	P
W77	412 361 500		6	2	200	200	8	2.5	100	150	2.5	B7G	P
W31	265 104 130		6	3.0	250	100	8	2.8	100	90	2.8	B8B	P
W101	265 104 130		19	3	250	100	8	2.8	100	90	2.8	B8B	P
W107	412 361 500		12.5	2.5	200	200	8	2.5	100	150	2.5	B7G	P
W142	261 154 130		12	3.0	250	250	7.2	2.2	100	150	2.2	B8A	P
W143	265 104 130		6	2.5	250	100	6	2.2	100	100	2.2	B8B	P
W145	260 154 130		13	2.5	175	100	7	2.3	100	100	2.3	B8A	P
W147	026 510 310	G ₁	6	2.5	250	100	6	2.2	100	100	2	A08	P
W148	265 140 130		6	2.5	250	150	9.5	2.8	100	150	3.8	B8B	P
W149	265 104 130		6	3	250	100	8.5	1.75	100	90	1.7	B8B	P
W150	261 154 130		6	2.5	250	100	6.0	2.2	100	150	2.2	B8A	P
W213	642 300 000		2	2.5	150		1	1.2	150		1.2	B4	T
W216	040 120 560		2	1.5	150	90	3	1.2	100	90	1.2	B7	P
W318	809 231 600	G ₁	4	2	100		3.5	2.5	100		2.5	B7	DDT
W406	642 300 000		4	7.5	125		3	1.2	100		1.2	B4	T
W411	642 300 000		4	2.5	125		3	2.2	100		2.2	B4	T
W412	642 300 000		4	7.5	125		3	1.2	100		1.2	B4	T
W415N	642 310 000		4	2.5	200		2.5	1.0	100		1.0	B5	T
W420	642 300 000		4	4	125		4	1.3	100		1.2	B4	T
W719	141 230 651		6	2.0	250	100	10.0	6.0	150	100	5.0	B9A	P
W729	141 230 651		6	2	175	175	8	5.7	100	100		B9A	P
W4080	642 310 000		4	2.5	200		2.5	1.0	100		1.0	B5	T
W4110	642 310 000		4	1.5	200		1.0	3	100		2.5	B5	T
W727	412 365 100		6	1.0	250	100	11.0	4.4	100	100	4.4	B7G	P
WD30	560 231 890	G ₁	13	1	250	100	7	2.6	250	100	2.6	B9	DDP
WD40	560 231 890	G ₁	4	1	250	100	7	3.5	100	100	3.5	B9	DDP
WD70	541 236 891		6	2.0	250	90	5.0	2.2	100	90	2.2	B9A	DDP
WD142	268 154 130		13	2	175	90	5	2.1	100	100	1.9	B8A	DP
WD150	268 154 130		6	2	250	100	5	2.1	100	100	2	B8A	DP
WD709	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
WE23	542 310 000	A ₁	4	2	200	100	3	2.5	100	100		B5	P
WE24	542 310 000	A ₁	4		200	100	3	2.5	100	100		B5	P
WE27	642 310 000		4	3.5	200		6	2.4	100		2.2	B5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
WE28	642 310 000		4	1.5	200		1	2.5	100		2.2	B5	T
WE29	642 310 000	D ₁	4	3	200		6	2	100		2.0	B5	DT
WE30	642 350 000		4	15	250	250	36	2.8	No Data Available			B5	P
WE51	892 300 000		4				30		REC		15mA	B4	RR
WE52	892 300 000		2				60		REC		20mA	B4	RR
WE350A	254 130 000	A ₁	6	12.5	400	250	83	6.5	100	PenLF	6	UX5	P
WE377	029 180 310		117				60		REC		20mA	A08	RR
WE403A	412 365 100		6	2.3	150	150	7	4.3	100	100	4	B7G	P
WT389	036 540 320		1.4	4.6	90	90	8	2	80	75	2	A08	P
WT390	026 040 310		6	{ 8	250		8	2	100		2	A08	T
					150		5.5		100	60			
WT210-0012	298 300 000		5				60		REC		20mA	UX4	RR
WT210-0013	289 300 000		5				120		REC		30mA	UX4	RR
WT210-0019	289 300 000		5				120		REC		30mA	UX4	RR
WT210-0021	028 090 310		6				30		REC		15mA	A08	RR
WT210-0025	029 180 310		117				60		REC		20mA	A08	RR
WT210-0029	025 040 310		6	{ 8	250		8	2	100		2	A08	T
							60		REC		20mA		
WT210-0037	126 458 310		117	5.2	100	100	43	5.3	100	90	5.3	A08	RP
WT210-0040	802 309 100		6				30		REC		15mA	B7G	RR
WT210-0082	026 540 310		6	18	350	250	54	5.2	100	PenLF	5.2	A08	P
WT210-006	029 180 310		6						D			A08	DD
WT210-0042	030 809 020		5				60		REC		20mA	A08	RR
WT210-0048	020 809 030		5				120		REC		30mA	A08	RR
WT210-0081	021 415 360		6	2	250	100	3	1.65	100		1.6	A08	P
WT210-0082	026 540 310		6	12.5	250	250	45	4.1	100	PenLF	4.1	A08	P
WT210-0083	216 498 130		6	2	250		2.3	1.6	200		1.6	B8B	DDT
WT210-0084	027 446 310		6	5	250		3	1.6	100		1.6	A08	TT
WT210-0085	412 365 400		50	7.5	125	100	49	7.5	100	90	6	B7G	P
WT210-0087	027 546 310	G ₁	6	{ 1	100		8	2.5	100	60	3	A08	TH
				3	250	100	4	1.2	100	100	1.6		
WT210-0089	026 540 310		6	9	175	175	15	2.3	100	100	2.3	A08	P
WT210-0090	265 113 000	G ₁	6	3	250	100	2	1.22	100	100	1.2	UX6	P
WT210-0094	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT
WT210-0108	461 471 230		6	31.5	150		125	7	100		7	A08	TT
WT210-0148	029 080 310		6				60		REC		20mA	A08	RR
WT-T102	020 809 030		5				60		REC		20mA	A08	RR
WT-T122	021 415 360		6	3	250	100	3	1.6	100	100	1.6	A08	P
WT-T123	026 540 310		6	12.5	250	250	45	4.1	100	PenLF	4.0	A08	P
WT-T124	216 498 130		6	2	250		2.3	1.6	200		1.6	B8B	DDT
WT-T125	027 446 310		6	5	250		3	1.6	100		1.6	A08	TT
WT-T126	412 365 400		50	7.5	125	100	49	7.5	100	90	6	B7G	P
WT-T128	027 546 310	G ₁	6	{ 1	100		8	2.5	100	60	3	A08	TH
				3	250	100	4	1.2	100	100	1.6		
WT-T130	026 540 310	G ₁	6	9	175	175	15	2.3	100	100	2.3	A08	TH

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia' mA	mA/V	Anode Volts	Screen Volts	mA/V		
WT-T131	265 113 000	G ₁	6	3	250	100	2	1-22	100	100	1-2	UX6	P
WT-T135	020 809 030		5				120		REC		30mA	A08	RR
X14	026 546 300	G ₁	1-4	0	90	50	1-8	0-5	80	60	0-5	A08'	H
X17	266 424 300		1-4	4	75		4-5	1-2	80		1-4	B7G	H
X18	266 464 300		1-4	4	75		4	1-2	80		1-4	B7G	H
X21	645 230 600	G ₁	2	0	150	75			100	75		B7	H
X22	645 320 600	G ₁	2	0	150	75			100	75		B7	H
X23	645 231 700	G ₁	2	{ 1-5	100		2-1		100	60	1-1	{ B7	TH
					150	60	0-7		150	60	1-5		
X24	645 231 700	G ₁	2	{ 1-5	100		2-1		100	60	1-3	{ B7	TH
					150	60	0-7		150	60	1-6		
X30	645 231 600	G ₁	13	3	150	75	7		100	75		B7	H
X31	645 231 700	G ₁	13	{	150		2-2		100	60	2-0	{ B7	TH
					250	75	2-3		250	75	3-0		
X32	645 231 600	G ₁	13	3	150	75	7		100	75		B7	H
X41	645 231 700	G ₁	4	{ 6	150		5	1-4	150	60	1-8	{ B7	TH
					250	75	2-3	1-4	100	75	2-0		
X42	642 231 600	G ₁	4	3	250	100	7-0	2-0	100	100	2-0	B7	H
X61	027 546 310	G ₁	6	{ 2-0	100		5-4	2-2	100		2-2	{ A08	TH
					250	100	3-0	0-65	150	100	0-65		
X62	027 546 310	G ₁	6		250	125	5		100	100		A08	TH
X63	026 545 310	G ₁	6	3	250	100	6	1-6	100	100	1-6	A08	H
X64	026 540 310	G ₁	6	3	250	100	5-3	1-1	100	100	1-1	A08	H
X65	027 546 310	G ₁	6	{ 1	100		8	2-5	100	60	1	{ A08	TH
					250	100	4	1-2	100	100	0-5		
X66	027 546 310	G ₁	6	{ 1	100		8	2-5	100	60	1-3	{ A08	TH
					250	100	4	1-2	100	100	1-0		
X71	027 546 310	G ₁	15	{ 3	100				100	60	1-5	{ A08	TH
					250	100			150	100	3-0		
X73	026 546 310	G ₁	6	3	150	75			100	75		A08	H
X75	026 546 310	G ₁	15		150	75			100	75		A08	H
X76	027 546 310	G ₁	13	{ 1-0	100		8-0	2-5	100	60	0-6	{ A08	TH
					250	100	4-0	1-2	100	100	1-6		
X77	412 366 100		6	2	100		12	6-5	100		6-5	B7G	H
X78	542 376 400		6	{ 2-0	100		5-0	2-2	100	60	2-8	{ B7G	TH
					125	75	5-3	2-2	100	75	2-0		
X79	541 237 46*		6	{ 2	100		5	2-2	100	60	2-8	{ B9A	TH
					250	75	10	3-0	100	75	6-0		
X81	276 454 130		6	{ 1-0	100		4-8	1-4	100	60	1-65	{ B8B	TH
					250	100	4-0	2-0	100	100	2-0		
X99	264 300 000		3	4-5	90		2-5	0-42	80		0-4	UX4	T
X101	276 454 130	G ₁	19	{ 2	100		3		100	60		{ B8B	TH
					250	100	3		100	100			
X107	412 365 400		19		100	250	4					B7G	O
X108	542 376 400		19	{ 1	100		5	2-2	100	60	2-2	{ B7G	TH
					250	75	5-3	2-2	100	75	1-6		
X109	541 237 46*		19	{ 2	100		5	2-2	100	60	2-8	{ B9A	TH
					250	75	2-9		100	75			

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
X142	276 454 130		14	{ 2.0 2.0	100 175		5.0 8	2.0 2.2	100 100	60 75	2.2 2.0	B8A	TH
X143	276 454 131		6	{ 2 2	100 250	75 90	6.25 5.3	2.4 2.2	100 100	60 100	3.2 2.2		
X145	276 454 130		28	{ 3.3 2.5	100 175		6.0 8.0	2.0 2.5	100 100	60 100	3 2.5	B8A	TH
X147	027 546 310 G ₁		6	{ 2 2	100 250	100	5.4 5	2.2 2.4	100 100	60 100	2.8 1.2		
X148	276 454 130		6	{ 1 2	100 250	100	4.8 4.0	1.4 2.0	100 100	60 100	1.6 2.0	B8B	TH
X150	276 454 130		6	{ 2 2	100 250	100	5 8	2.6 2.2	100 100	60 100	2.8 3.5		
X719	541 237 164		6	{ 3.0 2.0	100 250	100	5.0 6.5	2.3 2.4	100 150	60 100	2.3 2.4	B9A	TH
X727	412 366 100		6	2	100		11.0	7	100		5		
X6030	020 880 330		3						D			B8B	D
XD	642 300 000		2	1.5	75		0.65	0.75	80		0.7	Sm4	T
XD1-5	642 300 000		1.5	0	50		0.45	0.4	No Data Available			Sm4	T
XD2-0V	642 300 000		2	1	50		0.45	0.56	No Data Available			Sm4	T
XFR1	652 430 000		1.25	0	40	40	3	2	No Data Available			B5A	P
XFR2	652 430 000		1.25	0	60	60	1.8	1.1	No Data Available			B5A	P
XFR3	624 300 000		1.25	5	125		4	1.7	125		1.7	B5A	T
XFW10	653 420 000		0.625	0	20	20			No Data Available			B5A	P
XFW30	653 420 000		0.625	0	20	20			No Data Available			B5A	P
XFW40	653 420 000		0.625	0	20	20			No Data Available			B5A	P
XFW50	653 520 000		0.625	0	20	20			No Data Available			B5A	P
XFY10	653 420 000		1.25	1.25	20	20	0.5	0.35	No Data Available			B5A	P
XFY11	653 420 000		1.25	0	20	20	0.3	0.42	No Data Available			B5A	P
XFY12	653 420 000		1.25	0.5	20	20	0.25	0.37	No Data Available			B5A	P
XFY14	653 420 000		1.25	6.5	60	60	3.1	0.65	No Data Available			B5A	P
XFY20	653 420 000		0.625	0	20	20			No Data Available			B5A	P
XFY21	653 420 000		1.25	0	20	20	0.38	0.41	No Data Available			B5A	P
XFY22	653 420 000		1.25	1.2	20	20	0.3	0.36	No Data Available			B5A	P
XFY23	653 420 000		1.25	2	20	20	0.4	0.34	No Data Available			B5A	P
XFY31	653 420 000		1.25	0	20	20	0.38	0.41	No Data Available			B5A	P
XFY32	653 420 000		1.25	1.5	20	20	0.36	0.32	No Data Available			B5A	P
XFY33	653 420 000		1.25	2	20	20	0.4	0.34	No Data Available			B5A	P
XFY34	653 420 000		1.25	4	40	40	1.5	0.6	No Data Available			B5A	P
XFY35	653 420 000		1.25	1.5	40	40	0.75	0.57	No Data Available			B5A	P
XFY41	653 420 000		1.25	1.2	30	30	0.30	0.38	No Data Available			B5A	P
XFY43	653 420 000		1.25	2	20	20	0.4	0.34	No Data Available			B5A	P
XFY51	653 420 000		1.25	0	20	20	0.2	0.32	No Data Available			B5A	P
XFY53	653 420 000		1.25	3	20	20	0.45	0.3	No Data Available			B5A	P
XH1-5	642 300 000		1.5	0	50		0.45	0.5	No Data Available			Sm4	T
XH2-0V	642 300 000		2	1	50		0.45	0.56	No Data Available			Sm4	T
XL	642 300 000		2	1.5	75		1.5	0.85	80		0.8	Sm4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
XL01-5	642 300 000		1.5	1.0	50		0.9	0.65	No Data Available			Sm4	T
XLI-5	642 300 000		1.5	1	50		0.7	0.6	No Data Available			Sm4	T
XL02-0V	642 300 000		2	1	50		1.1	0.92	No Data Available			Sm4	T
XL2-0V	642 300 000		2	1	50		1.0	0.84	No Data Available			Sm4	T
XP	642 300 000		2	4.5	100		9.5	1	80	1		Sm4	T
XP1-5V	642 300 000		1.5	4	50		1.8	0.8	No Data Available			Sm4	T
XP2	642 300 030		2	4.5	75		4	1	80	1		Sm4	T
XP2-0V	642 300 030		2	3	50		2	1.0	No Data Available			Sm4	T
XR2	205 035 240		1.25	7.5	125	125	7	1.9	125	100		B8D	P
XSG	542 300 000	A	2	1.0	125	60	1.4	0.7	100	60	0.6	Sm4	P
XSG1-5	542 300 000	A ₁	1.5	0	50	30	0.6	0.3	No Data Available			Sm4	T
XSG2-0V	542 300 000	A	2	0	50	30	0.6	0.4	No Data Available			Sm4	P
XVS2-0V	542 300 000	A	2	0	50	30	0.4	0.33	No Data Available			Sm4	P
XW075A	653 420 000		.675	0	30	30	0.3	0.18	No Data Available			B5A	P
XW1-5	254 630 000		1.5	0	50	30	0.75	0.5	No Data Available			Sm5	P
XW2-0V	254 630 000		2	0	50	50	0.96	0.6	No Data Available			Sm5	P
XXB	206 447 320		1.4		90		4.5	1.3	90		1.3	B8B	TT
XXD	216 447 130		12.5	10	250		9	2.1	100		2.1	B8B	TT
XXFM	254 189 130		6.3	2	225		1.5	1.5	100		1.4	B8B	DDT
XXL	250 004 130		6	8	250		8	2.3	100		2.3	B8B	T
XY	254 630 000		2	3	75	75	4.0	1.25	80	75	1.2	Sm5	P
XY1-5	254 630 000		1.5	1.5	40	40	1.75	1	No Data Available			Sm5	P
XY2-0V	246 530 000		2	2	50	50	1.75	1.4	No Data Available			Sm5	P
XY14B	653 420 000		1.25	4.5	40	40	0.3	0.6	No Data Available			B5A	P
XY14CC	653 420 000		1.25	1.5	40	40	0.5	0.5	No Data Available			B5A	P
Y13	045 231 600		13	20	250	250	40	3.9	100	150		B7	P
Y220	642 300 000	S	2	4.5	150	150	10.5	2.5	100	100	2.5	B4	P
Y220	642 350 000		2	4.5	150	150	10.5	2.5	100	100	2.5	B5	P
Y230	642 350 000		2	3	150	150	5		100	100		B5	P
Z14	036 500 200	G ₁	1.4	1	90	90	0.5	0.6	80	90	0.7	A08	P
Z21	542 300 000	A	2	1	150	125	1.1	1.2	150	100	1.2	B4	P
Z21	041 230 500	A	2	1	150	125	1.1	1.2	150	100	1.2	B7	P
Z26	045 231 600		26	5.5	250	250	32	7.5	100	100	8.0	B7	P
Z62	026 510 310	G ₁	6	2	300	150	10	7.5	100	100	7.5	A08	P
Z63	026 510 310	G ₁	6	3	250	100	2.0	1.23	100	100	1.2	A08	P
Z66	026 510 310	G ₁	6	1.5	200	200	10.9	8.5	100	150	8.0	A08	P
Z73	026 510 310	G ₁	6	3	250	100	6.5	1.7	100	90	1.8	A08	P
† Z77	412 361 500		6	2	250	250	10	7.5	100	PenLF	5.0	B7G	P
				1.5	200	150	4	6.4	100	PenLF	5		
Z90	256 101 403		6	2	250	250	10	6.0	100	150	6.0	B9G	P
Z142	260 154 130		21	2	175	175	10	8.5	100	150	8	B8A	P
Z145	261 514 130		22	1.8	200	200	10	9	100	150	7	B8A	P
Z150	260 154 130		6	2	250	250	10	9.5	100	150	8	B8A	P

† See note on Page 5 regarding Back Emission.

□ See note on Page 5 regarding Insulating Testing.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
Z152	141 230 651	S	6	2.0	170	170	10.0	7.4	100	100	6.0	B9A	P
Z220	642 300 000		2	7.5	150	150	15	2.0	100	100	2.0	B4	P
Z220	642 350 000		2	7.5	150	150	15	2.0	100	100	2.0	B5	P
Z309	141 223 651		6	2	250	250	20	15	No Data Available			B9A	P
Z319	141 321 655		6	2	350	250	12.5	11.5	No Data Available			B9A	P
Z359	141 230 651	S	12	2	250	250	20	15	100	100		B9A	P
Z719	141 230 651		6	2	175	175	10	7.4	100	150	6	B9A	P
Z729	501 236 014		6	1	250	100	3	1.8	100	100	1.8	B9A	P
□ Z759	141 023 651		6	2	250	250	15	15	100	100		B9A	P
ZD	892 310 000		13						D			B5	DD
ZD17	208 564 300	G ₁	1.4	1	90	90	2.7	0.64	80	90	0.6	B7G	DP
ZD152	541 236 891		6	2	250	90	5	2.2	100	90	2.2	B9A	DDP
IA4	365 200 000		2	3	150	75	2.2	0.65	100	75	0.6	UX4	P
IA7	892 300 000		4				60		REC		20mA	B4	RR
IA8	327 546 280		1.4	0	90	90	1.2	0.75	80	90	0.75	A08	DTP
IAE5	642 453 000		1.25	0	40	40	0.9	0.2	No Data Available			B5A	P
IAF33	208 564 300		1.4	0	60	60	1.6	0.5	No Data Available			B7G	DP
IAF34	208 564 300		1.25	0	60	60	1.6	0.5	No Data Available			B7G	DP
IAG4	653 420 000		1.25	3.6	40	50	2.4	1	No Data Available			B5A	P
IAG5	658 243 000		1.25	2	40	40	0.28	0.25	No Data Available			B5A	P
IAH4	652 453 000		1.25	0	40	40	0.75	0.75	No Data Available			B5A	P
IAJ5	658 243 000		1.25		40	40	1	0.42	No Data Available			B5A	P
IAK4	652 430 000	D ₁	1.25		40	40	0.75	0.75	No Data Available			B5A	P
IAM4	265 024 300		1.4	0	90	60	2.4	0.35	80	60	0.3	B7G	P
IAQ5	266 424 300		1.4		90	40			No Data Available			B7G	H
IAR5	208 564 300		1.4	0	60	60	0.9	0.5	No Data Available			B7G	DP
IAS5	265 804 300		1.4	0	60	60	0.9	0.5	No Data Available			B7G	DP
IB4	364 200 000		2	3	175	60	1.7	0.65	100	60		UX4	P
IC3	266 464 300		1.4		60		3		No Data Available			B7G	H
IC91	624 300 000		1.25	2.5	125		7		100			B5A	T
IDN5	265 804 300		1.4	0	60	60	2.1	0.63	No Data Available			B7G	DP
IF33	265 024 300		1.4		90	60	3.5	0.75	80	60		B7G	P
IF34	265 024 300	D ₁	1.25		90	60	3.5	0.75	80	60		B7G	P
IF860	141 230 651		20		175	175	10	7.5	100	100	7	B9A	P
IG3	*2* 0*0 3*0		1.25						D			A08	D
IH2	23* 232 *32		1.4						D			B9A	D
IH3C	026 447 300		1.2	5.5	125		2.3	0.8	100			A08	TT
IH33	265 424 300	D ₁	1.4		90	60	1.6		80	60	0.3	B7G	H
IH34	265 424 300		1.2		90	60	1.6		80	60	0.3	B7G	H
IH35	265 454 300		1.4		90	40	0.6		No Data Available			B7G	H
IJ3	020 000 300		1.25						D			A08	D
IK3	020 000 300		1.25						D			A08	D
IL33	264 526 300	D ₁	1.4	7	90	60	7.4	1.4	80	60		B7G	P
IL34	254 526 300		1.2	7	90	60	7.4	1.4	80	60		B7G	P
IL91	652 430 000		1.25	4.5	40	40	1.2	0.5	No Data Available			B5A	P
IL861	041 230 651		20		200	200	15	9	100	100		B9A	P
ILB7	265 104 130		1.4	3	40	40	1	0.3	No Data Available			A08	P

□ See note on Page 5 regarding Insulation Testing.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
1W4	892 300 000		4				30		REC		40mA	B4	RR
1Y32	232 232 300	D ₁	1.4						No Data Available			B7G	D
2AIM	026 546 300	G ₁	2		125	75	2.2		100	80		A08	H
2B5	634 224 370		1.2	1	90		2.6	1.15	80		1.15	B8A	TT
2C40	*21 010 310	G ₁ A ₁	6.3	5	250		20		100			A08	T
2C43	*21 010 310	G ₁ A ₁	6.3		400		38		100			A08	T
2C50	461 471 230		12.6		200		18	2.9	100			A08	TT
2EA5	412 365 100		2.3	1	250	150	10	8				B7G	P
2EN5	092 310 800		2.1						D			B7G	DD
2EV5	265 424 300		2.4		250	75	11.5	8.8	100	80		B7G	P
2FV6	265 424 300		2.4	1	125	75	10	8	100	80		B7G	P
2HIM	026 447 300		2	2	125		1.2	1	100		1	A08	TT
2J2	230 232 032	D ₁	2						D			B9A	D
2L35	265 242 300		1.2		150	90	14.8	2.1	100	90		B7G	P
2S/140G	208 130 800		6.3				5		D			B7G	R
25C10	642 300 000		2.5	1	255		15	2.4	100			B4	T
3A/167M	2*0 61* 430		6.3	4	200		10	30	No Data Available			B8B	T
3AB4	602 304 100		3.1	2	250		10	5.5	100			B7G	T
3AZ4	020 809 030		5				60		REC		15mA	A08	RR
3CE5	412 365 100		3.15	2.1	200	150	9.5	6.2	100	100		B7G	P
3CF5	402 365 100		3.15		125	125	11	7.6				B7G	P
3CY5	412 365 100		2.9	1	125	75	10	9	100	80	8	B7G	P
3DG4	1*1 080 900		3.3				120		REC			A08	RR
3DK6	412 365 100		3.15	0.9	125	125	12	9.8	100	100	9.5	B7G	P
3D21A	320 504 210	A ₁	6.3	30	400	300		5.5	No Data Available			A08	P
3EA5	402 365 100		3	1	250	150	10	8	100	100		B7G	P
3ER5	142 360 100		3.6	1.2	250		10	10.5	100			B7G	T
3EV5	265 424 300		2.9		250	75	11.5	8.5	100	80		B7G	P
3L31	265 436 200		1.4	8.7	150	90	14.2	2.1	100	90		B7G	P
3L35	265 243 200		1.4		150	125	18.5		100	100		B7G	P
3SB6	036 540 200		1.4		90	60	1.45	0.67	80	60		A08	P
3V4	264 536 200		1.4	5.2	90	90	6.8	1.7	80	75	1.5	B7G	P
3Y4	264 536 020		1.4	5.4	60	60	5	1.2	No Data Available			B7G	P
3Y6A1	023 104 560		6.3		400	300		2	No Data Available			F8	P
3Z4	264 536 200		1.4	7	60	60	6.5	1.4	No Data Available			B7G	P
4BN4	142 361 400		4	2.2	150		9	7	100		7	B7G	T
4BS8	641 237 410		4.5	2.2	150		10	7.2	100		7	B9A	TT
4BZ6	412 365 100		4	1	100	125	14	8	125	125	7	B7G	P
4C101	023 004 060		4	45	250		60	6	100			F8	T
4CM4	641 234 146		3.6	1.5	175		12	14	No Data Available			B9A	T
4CS6	412 365 100		4	1	100	30	1	11	No Data Available			B7G	P
4DE6	412 365 100		4.2	1.1	125	125	15.5	8	100	100		B7G	P
4DK6	412 365 100		4.2	0.9	125	125	12	9.7	100	100	9.5	B7G	P
4DT6	412 365 100		4.2	2.2	150	100	11	0.8	150	100	2	B7G	P
4E104	265 004 130		4	6	250	250	36	9	100	100		B8G	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
4E20I	023 110 560	D ₁	4	3	250	100	8	1.8	100	100		F8	P
4ES8	641 237 410		6.3	2.2	150		10	7.2	100		7	B9A	TT
4EW6	412 565 100		4.2	0.8	125	125	11	14	No Data Available			B7G	P
4G5000	023 000 000		4						D			F8	R
4GG1	892 300 000		4				30		REC		15mA	B4	RR
4GG2	892 300 000		4				60		REC		20mA	B4	RR
4GG3	892 300 000		4				120		REC		30mA	B4	RR
4GG4	023 080 090		4				30		REC		15mA	F8	RR
4MBT	643 210 000		4	1	200		3.4	2.6	100		2.5	B5	T
4MPI2	412 365 400		4	6	175	175	25		100	100		B7G	P
4RHH2	741 236 411	4.7	1	90		8.5	8	100		8.5	B9A	TT	
4UI30	643 210 000	3.5		100			2.8	100			B5	T	
4W08	642 300 000	4		150				100			B4	T	
4Z60A	023 080 090	4				30		REC		15mA	F8	RR	
5A/180M	412 365 400	6.3		175	150	26	32	No Data Available			B8G	P	
5B/258M	215 144 130	19	14	250	250	72	6	No Data Available			B8B	P	
5BS8	641 237 410	5.6		150		10	7.2	100			B9A	TT	
5BW8	918 234 156	4.7	1.1	250	100	10	5.2	100	100		B9A	DDP	
5BX7	641 237 410	5.6		150		10	6.8	100		6.8	B9A	TT	
5C10	264 147 300	4	80	400	200	40		No Data Available			UX7	TT	
5CG4	030 809 020	5				60		REC		20mA	A08	RR	
5CM6	504 234 106	4.7	12.5	250	250	45	4.1	100	100	4	B9A	P	
5CQ8	645 237 114	4.2	{ 0.85 1	125	125	15	8	100		8	B7G	TP	
				125		12	5.8	125	125	9.5			
5CR8	641 237 514	4.7	{ 2 125	125	125	12	4	100		4	B9A	TP	
				125		13	7.7	100	100	7.7			
5EA8	645 237 114	4.7	{ 1 125	150		18	8.5	100		8.5	B9A	TP	
				125	125	12	6.4	100	100	6.4			
5EU8	741 231 415	4.7	{ 1 125	150		18	8.5	100	60		B9A	TP	
				125	125	12	6.4	100	100				
5FG7	461 237 514	4.7	{ 1 125	125		13	7.5	100	60		B9A	P	
				125	125	11	6	100	100				
5FV8	461 237 514	4.7	{ 1 125	125		14	8	100	60	8	B9A	TP	
				125	125	12	6.5	100	100	6.5			
5GH8	645 237 114	4.7	{ 1 125	125		13	8.5	100	60		B9A	TP	
				125	125	12	7.5	100	100				
5GK18	020 809 030	5						REC			A08	RR	
5GK22	030 809 020	5						REC			A08	RR	
5GK24	030 809 020	5				120		REC		30mA	A08	RR	
5MHH3	672 344 100	4.7	1	100		11	7.5	100		7.5	B7G	TT	
5RK16	800 230 090	5				120		REC		30mA	B9A	RR	
5Z10	020 908 030	5				120		REC		30mA	B8A	RR	
6A10C	026 541 340	C		0	250	100	3.5		100	100		A08	H
6AB6	026 740 310		6.3	{ 0 0	250		34	1.8	100		1.8	A08	TT
6AC6	026 740 310		6.3	0	250		5		100				
6AF3	*** 23* **8		6.3		175		45	2	100		2	A08	TT
6AL7	426 89* 310		6	6	300				REC		40mA	B9A	R
									100			A08	DDDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
6AM8A	145 236 181		6-9	1-7	200	150	9-5	5-8	100	150	7	B9A	P
6AN8A	641 237 541		6-3	{ 6 2-2	200 200	150	13 9-5	3-3 6-2	100 100	60 100	3 6	B9A	TP
6AQ5A	412 365 400		6-3	12-5	250	250	45	4-1	100	PenLF	4	B7G	P
6AT8A	461 237 514		6-3	{ 1 1-8	100 250	150	8-5 7-7	5-8 4-6	100 100	60 100	5-8 4	B9A	TP
6AU6A	412 365 100		6-3	1	250	150	10	5-2	100	100	3-9	B7G	P
6AU8A	146 231 457		6-3	{ 1-25 1-5	150 200	125	8-5 15	4-9 7	100 100	60 100	5 7	B9A	TP
6AZ6	083 113 900	C	6						D			B8A	DD
6B3	080 230 808		6-3						D			B9A	R
6B4	036 040 200		6-3	45	250		60	5-2	No Data Available			B8A	T
6B5	267 413 000		6	{ 0 0	300 300		42 9	2-2 0-6	100 100			UX6	TT
6B31	821 013 900		6-3						D			B7G	DD
6B32	821 013 900		6-3						D			B7G	DD
6BA8A	146 231 457		6-3	{ 8	200	150	8	2-7	100	60	2-5	B9A	TP
6BC32	412 389 600		6-3	2	250		1	1-6	100		1-2	B7G	DDT
6BD7A	641 238 09*		6-3	3	250		1	1-2	150		1-2	B9A	DDT
6BK7B	741 236 410		6	2	150		10-7	9	100		9	B9A	TT
6BN8	811 239 641		6-3	3	250		1-6	2-5	100		3-5	B9A	DDT
6C3M	026 040 300		2	2-5	125		1-5	1-3	100		1-3	A08	T
6C4C	026 040 300		6-3		250		60	5-2				A08	T
6C16	645 237 114		6-3	{ 2 2	100 175	175	14 10	5 6-2	100 100	60 100		B9A	TP
6C31	412 344 600		6-3	15	150			12	No Data Available			B7G	T
6CB6A	412 365 100		6-3	2	200	150	9-5	6-2	100	100		B7G	P
6CF5	402 365 100		6-3		125	125	11	7-6	100	100		B7G	P
6CC10	461 471 230		6-3	9	250		6-5	2-2	100		3	B8A	TT
6CC31	672 344 100		6-3		200		6	3	100		4	B7G	TT
6CC40	641 237 410		6-3	8-5	250		10-5	2-2	100		3	B9A	TT
6CC42	214 607 413		6-3	2	150		8	5-2	100		5-5	B9A	TT
6CG8A	461 237 514		6-3	{	250 100	150	7-7 8-5	4-6 5-8	100 100	100 60		B9A	TP
6CK4	424 060 310		6	28	250		40	5-5	No Data Available			A08	T
6CL8A	461 237 514		6	{ 0-85 1	125 125	125	15 12	8 5-8	100 100	60 100	8 5	B9A	TP
6CM4	641 234 146		6		175		12	14	No Data Available			B9A	T
6CN5	026 540 310		6-3	18	350	250	66	5-2	No Data Available			A08	P
6CQ8A	645 237 114		6-3	{ 0-85 1	125 125	125	15 12	8 5-8	100 125	60 125	8 5-8	B9A	TP
6CR4	414 464 234		6-3	1	125		16	60	No Data Available			B9A	T
6CR5	154 231 541	A ₁	6-3	22-5	250	150	65	6	100	100		B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
6CR8	641 237 514		6.3	{ 2	125		12	4	100	60	4	B9A	TP
6CS8	641 237 514		6.3	{ 2 0.9	125 125	125	12 13	4 7.7	100 100	100 60	4 7		
6CU8	175 231 446		6.3	{ 6 2.2	200 200	150	13 9.5	3.3 6.2	100 100	60 150	3 6	B9A	TP
6CY5	412 365 100		6.3	1	125	75	10	8	100	80			
6CY7	714 236 411		6.3	{ 3 18.5	250 150		1.2 30	1.3 5.4	100 100		1.5	B9A	TT
6DA4	**1 060 230		6.3				120		REC		30mA		
6DB5	514 234 1*6		6.3	9.6	200	125	46	8	100	100		B9A	P
6DC8	541 236 891		6.3	2	250	100	9	3.8	100	100		B9A	DDP
6DE4	001 080 230		6.3				120		REC		30mA	A08	R
6DE7	744 236 411	OBS! F2 A1	6.3	{ 17.5 11	150 250		32 5.5	6.5 2	100 100			B9A	TT
6DG7	041 230 651		6.3	20	250	100	11	4.4	100	100	5		
6DJ8	641 237 411		6.3	1.3	90		15	12.5	No Data Available			B9A	TT
6DK6	412 365 100		6.3	0.9	125	125	12	9.8	100	100	9.5	B7G	P
6DL5	412 365 400		6.3	7.3	225	225	26	5.5	No Data Available			B7G	P
6DN7	461 471 230		6.3	9.5	250		34	7.4	100			A08	TT
6DQ5	421 541 350		6.3	17.5	125	100	10.5		No Data Available			A08	P
6DQ8	461 237 141		6.3	{ 1.7 2.1	200 175	175	3 18	4 11	100 100	60 100	4	B9A	TP
6DR7	644 237 411		6	{ 17.5 3	150 250		35 1.4	6.5 1.6	No Data Available				
6DR8	541 326 891		6.3		12.6	12.6	45		No Data Available			B9A	DDP
6DS5	412 365 100		6.3	8.5	250	200	29	5.8	100	100		B7G	P
6DS8	541 237 564		6.3		{ 12.6 12.6	12.6	0.73 0.4	1.4 0.75	No Data Available			B7G	P
6DT5	504 230 1*6		6.3	16.5	250	250	38	6.5	100	100		B9A	P
6DT6	412 365 100		6.3	2.2	150	100	11	0.8	150	100	2	B7G	P
6DT8	741 236 410		6.3	2.5	250		10	5.5	100		4	B9A	TT
6DW5	504 234 106		6.3	22.5	200	150	55	5.5	100	100		B9A	P
6DZ7	426 517 310		6.3	7.3	250	250	48	11.3	No Data Available			A08	PP
6DZ8	414 237 516		6.3	{	120 150	125	0.8 45	1.4 7.5	100 100	60 100	1.4	B9A	TP
6EA5	412 365 100		6.3	1	250	150	10	8	No Data Available				
6EA7	461 471 230		6.3	25	175		48	6.5	No Data Available			A08	R
6EB8	146 231 457		6.3	{ 2 2	250 200	125	2 25	2.7 12	100 No Data Available	60	2.5	B9A	TP
6EF6	026 540 310		6.3	18	250	250	50	5	No Data Available				
6EH5	142 345 600		6	3.2	100	125	42	14.6	100	125		B7G	P
6EH8	146 231 457		6.3	{ 1 1	125 125	125	13 12	7.5 6	100 100	60 100	7.5 6	B9A	TP
6EM5	504 234 106		6	18	250	250	35	5.1	100	100			
6ER5	142 361 *10		6.3	1.2	200		10	10.5	100			B7G	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
6ES6	412 365 100		6-3	0-7	12-6	12-6			No Data Available			B9A	P
6ES8	641 237 410		6-3	1-2	90		15	12-5	100			B9A	TT
6ET6	412 365 100		6-3	1	12-6	12-6	4-8	3	No Data Available			B7G	P
6EU8	746 231 415		6-3	{ 1 1	150 125	125	18 12	8-5 6-4	100 100	60 100		B9A	TP
6EV5	265 424 300		6-3		250	80	11-5	8-8	100	80		B7G	P
6EW6	412 365 100	G ₁	6	0-8	125	125	11	14	No Data Available			B7G	P
6EX6	021 040 350		6-3	30	175	175	67	7-7	100	100		A08	P
6EY6	026 540 310		6-3	17-5	250	250	44	4-4	No Data Available			A08	P
6EZ5	026 510 310		6-3	20	250	250	43	4-1	No Data Available			B8A	P
6EZ8	144 127 464		6-3	1	125		4-2	4-2	100		4-2	B9A	TT
6FI0	021 415 360		6-3	2	300	150	10	9	No Data Available			A08	P
6F20	141 230 651		6-3	2	175	175	10	6	100	100		B9A	P
6F21	412 361 500		6	2-5	250	200	7-8	2-5	100	100		B7G	P
6F22	501 236 014		6	2	250	150	3	1-85	100	100		B9A	P
6F23	141 231 651		6-3	2	175	175	10	9-2	100	100		B9A	P
6F24	261 154 130		6-3	2-1	250	200	15	10-5	No Data Available			B8G	P
6F26	141 230 651		6-3	2	250	100	10	6	100	100	6	B9A	P
6F31	412 365 100		6-3	1	250	100	11	4-2	100	100		B7G	P
6F32	412 365 100		6-3		175	125	8	4-6	100	100		B7G	P
6F33	412 365 100		6-3	2	125	125	5-2	3-5	100	100	3	B7G	P
6F35	412 365 100		6-3		30	30	2-7	2-7	No Data Available			B7G	P
6F36	412 365 100		6-3		300	150	10	9	No Data Available			B7G	P
6F40	111 231 654		6-3	2	250	150	3	2	100	100		B9A	P
6FD12	541 236 891		6-3	2	250	100	9	3-8	100	100		B9A	DDP
6FG5	412 365 100		6-3	0-2	250	250	9	9-5	No Data Available			B7G	P
6FH6	020 540 310	A ₁	6-3	22-5	250	150	75	6	100	100		A08	P
6FLD12	541 236 891		19	2	250	100	9	3-8	100	100		B9A	DDP
6FM8	181 239 146		6-3	3	250		1	1-2	100			B9A	DDT
6FN5	521 441 350		6-3	22-5	200	150	100	10	No Data Available			B8A	P
6FV6	402 365 100		6-3	1	125	75	10	8	100	80	8	B9A	P
6FV8	461 237 514		6-3	{ 1 1	125 125		14 12	8 6-5	100 100	60 100	8 6-5	B9A	TP
6FW8	641 237 410		6-3	2	125		15	12-5	No Data Available			B9A	TT
6FY8	455 237 416		6-3	{ 1-5 13-5	125 125	125	2-5 50	2 7	100 100	60 100		B9A	TP
6GA4	026 040 310		6-3	18-5	250		50	70	No Data Available			A08	T
6GA8	641 237 410		6-3		250		8					B9A	TT
6GB3A	020 540 310	A ₁	6-3	7-7	100	100	100	14	No Data Available			A08	P
6GB6	020 540 310	A ₁	6-3	22-5	250	150	6-5	6	100	100		A08	P
6GB9	020 540 310	A ₁	6-3	22-5	250	150	75	6-6	125	100		A08	P
6GH8	645 237 114		6-3	{ 1 1	125 125	125	13-5 12	8-5 7-5	100 100	60 100		B9A	TP
6GK17	001 080 230		6-3				120					A08	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6H1	412 360 500		6	1.8	250	100		2.1	100	100	2	B7G	H
6H7G	126 447 310		6.3		300		35	3.2	100			A08	TT
6H8C	461 471 230		6.3	8	250		9	3	100			A08	TT
6H9C	461 471 230		6.3	2	250		2.2	1.6	100			A08	TT
6H31	412 365 100		6.3		250	100	3					B7G	H
6J6A	762 344 100		6	3	150		5	4.5	100		5.3	B7G	TT
6L10	120 415 360		6.3	3	300	150	30	11	100	100		B8A	P
6L13	741 226 413		6	2	250		1.2	1.6	100		1.6	B9A	TT
6L15	147 234 116		6.3	1.2	90		15	9	100		9	B9A	TT
6L16	146 234 107		6.3	1.5	90		12	6.2	80		6.2	B9A	TT
6L31	412 365 400		6.3	12.5	250	250	45	4.1	100	100	4	B7G	P
6L41	601 235 144		6.3	17.25	250	250	45	7	100	100		B9A	P
6L43	145 236 154		6.3	3	300	150	30	11	No Data Available			B9A	P
6L50	214 451 130		6.3	12.6	200	250	70	5	No Data Available			B9A	P
6LD13	641 238 09*		6	3	250			1	100			B9A	DDT
6MHH3	672 344 100		6.3	1	100		11	7.5	100		7.5	B7G	TT
6P17	412 360 500		6	13.5	250	250	16	2.6	No Data Available			B7G	P
6RDHVI	145 237 864		6.3	{ 2	250		91.2	1.6	100	60		B9A	DDT
				{ 1	250	100	9	3.5	100	100			
6RHH2	741 236 410		6.3	1	90		8.5	8	100		8	B9A	TT
6RHVI	145 237 164		6.3	{ 2	250		12	1.6	100	60		B9A	TP
				{ 1	250	100	9	3.5	100	100			
6RP10	260 153 041		6.3	2.6	150	150	36	13.5	No Data Available			B9A	P
6R51P	451 23x 6x5		6.3	8	250	250	54	11	No Data Available			B9A	P
6RR8	402 106 053		6.3	1.9	150	150	13	12.6	No Data Available			B9A	P
6S2A	*** 23* ***		6.3						No Data Available			B9A	D
6SJ8EG	027 546 310		G ₁	{ 3	150		5	1.6	100	60	1.6	A08	TH
				{ 3	150	100	1.3	1.2	100	100	1.2		
6SJ8G	027 546 310		G ₁	{ 3	150		5	1.6	100	60	1.6	A08	TH
				{ 3	250	100	1.3	1.2	100	100	1.2		
6T8A	891 241 146		6.3	3	250		1	1.2	100			B9A	DDT
6U5M	028 090 310		6.3				30		REC		15mA	A08	R
6U8A	645 237 114		6.3	{ 1.0	150		18	8.5	100	60		B9A	TP
					250	100	10	5.2	100	100			
6W6	026 540 310		6.3		200	125	46	8	No Data Available			A08	P
6WC5	266 114 300		6.3	3.6	100		12	4.3	No Data Available			B7G	H
6X8A	146 231 457		6.3	{ 3.5	150		18	5.8	100	100		B9A	TP
					150	150	4.6	1.6	100	100			
6Y50	802 308 001		6.3				180		REC		40mA	B9A	R
6Z7	026 447 310		6.3		175		8.4		100			A08	TT
6Z31	802 309 100		6.3				30		REC		15mA	B7G	RR
6ZDH3A	264 813 000		6.3	2	250		1.1	1.1	100			UX6	DP
7DJ8	641 237 411		7	1.3	90		15	12.5	No Data Available			B9A	TT
7ED7	141 230 651		7.3	1.9	175	175	10		100	100		B9A	P
7ES8	641 237 410		7	1.2	90		15	12.5	No Data Available			B9A	TT
7EY6	026 540 310		7.2	17.5	250	250	44	4.4	No Data Available			A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
8AU8A	146 231 457		8.5	{ 1.25 1.5	150 200		8.5 16	4.9 7	100 100	60 100	5 7	B9A	TP
8AW8A	146 231 456		8.4	{ 2 3	200 200	150	4 13	4 9	100 100	60 100	4 9	B9A	TP
8BA8A	146 231 456		8.4	{ 8 3	200 200	150	8 13	2.7 9	100 100	60 100	5	B9A	TP
8BH8	146 231 457		8.4	{ 5 1.6	150 200	125	9.5 15	3.3 7	100 100	60 100		B9A	TP
8BN8	811 239 641		8.4	3	250		1.6	2.6	100		3.5	B9A	DDT
8BQ5	*41 23* 6*5		8		250	250	48	11.5	No Data Available			B9A	P
8CS7	704 236 411		8.4	10.6	250		19	4.5	100		4	B9A	TT
8CY7	7*3 236 411		7.9	{ 18.5 3	150 250		30 1.2	5.4 1.3	No Data Available			B9A	TT
8D8	501 236 014		6	2	250	150	3	1.9	100	100		B9A	P
8EB8	146 231 457		8	{ 2	250 200	125	2 25	2.7 12.5	100 100	60 100		B9A	TP
8EM5	504 234 106		8.4	18	250	250	35	5.1	100	100		B9A	P
8MPI2	412 365 400		8.5		175	175	25		100	100		B7G	P
8NPI2	412 365 400		8.5		175	175	25		100	100		B7G	P
8RHPI	414 237 516		8.2	{ 0 16	100 200	200	3.5 35	2.5 64	100 100	60 100	2.5 6	B9A	TP
8SNGTB	461 471 230		8.4	8	250		0	2.6	100		2.6	A08	TT
9CL8	461 237 514		9.5	{ 0.75 0.1	125 125	125	15 12	8 5.8	100 125		7.5 5	B9A	TP
9DZ8	414 237 516		9	{	125 150	125	0.8 45	1.4 7.5	100 100	60 100	1.4	B9A	TP
9EF6	026 540 310		9.4	18	250	250	50	5	100	100		A08	P
9EN7	157 236 414		9	{	125 200	150	6 7.6	5 8.5	100 100	60 100		B9A	TP
9GB8	641 237 541		9.4	{	250 250	250	8 12		100 100	60 100		B9A	TP
9T8	891 234 146		9.5	1	100		0.8	1.3				B9A	DDDT
9U8A	645 237 114		9.5	{ 1 1	150 250	100	18 10	8.5 5.2	100 100	60 100	8.5 5	B9A	TP
9X8	146 231 457		9.5	{ 3.5	100 150	150	8.5 6.2	5.8 2.1	100 100	60 100		B9A	TP
10C8	641 237 541		10.5	{	250 125	125	7.2 1.5	4.4 8	100 100	60 100		B9A	TP
10CI4	541 237 164		19	{ 0 2.2	100 175	100	13.7 5	3.7 2.3	100 100	60 100		B9A	TP
10D2	192 310 800		19				5		D			B7G	RR
10DA8	604 237 411		10.5	8	250		9	2.6	100			B9A	TT
10DE7	744 236 411		10	{ 17.5 11	150 250		3.5 5.5	6.5 2	100 100			B9A	TT
10EB8	146 231 457		10.5	{ 2	250 200	125	2 25	2.7 12.5	100 100	100 100		B9A	TP
10EG7	461 471 230		9.7	{ 11 17.5	350 150		5.5 45	2 7.5	100 100			A08	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
10ER5	142 360 100		10-8	1-2	200		10	10-5	No Data Available			B7G	T
10FI	261 154 130		22	1-8	200	200	10	9	100	100		B8A	P
10F3	260 544 130		22	2-3	200	200	6	6-5	100	100		B8A	P
10FD12	541 236 891		19	1-5	200	200	11	4-5	100	100		B9A	DDP
10LI4	641 237 410		26	2-1	200		10	5-8	100		5	B9A	TT
10LD12	†91 238 146		28	2-3	200		1	1-4	100		1-4	B9A	DDT
10LD13	641 238 09*		13	4-4	150		0-5	1-4	100		1-4	B9A	DDT
10PI8	*41 23* 6*5		45	12-5	175	175	70	10	100	100	9	B9A	P
10PL12	414 237 516		50	{ 0 16	100 200	200	3-5 35	2-5 6-4	100 100	60 100	2-5	B9A	TP
11A1	*1* 234 **6		6-3		150		100	12				B9A	T
11A6	264 147 300		10	1	100			3-1	100		3-1	A08	TT
11C5	026 040 310		10	1	100			2	100		2	A08	T
11CY7	742 364 110		11	{ 3 150	250 150		1-2 30	1-3 5-4	100 100			B9A	TT
11F6	026 540 310		10	1	100	150		2-5	100	PenLF	2-5	A08	P
11J7	026 500 310	G ₁	10	1	250	100		1-2	250	100	1-2	A08	P
11K7	026 500 310	G ₁	10	1	250	100		1-4	250	100	1-4	A08	P
11L6	026 540 310		10	1	100	150		6	100	PenLF	6	A08	P
11N7	026 447 310		10	1	100			3-1	100		3-1	A08	TT
12AC6	412 365 100		12-6		12-6		0-55	0-75	No Data Available			B7G	P
12AD5	541 236 **0		12-6	2-5	100	100	6	2-2	100	100	2-5	B9A	P
12AD6	412 366 100		12-6		12-6		5	3-8	No Data Available			B7G	P
12AE6	412 389 500		12-6		12-6		0-75	1	No Data Available			B7G	DDT
12AE7	641 227 413		6-3		12-6		0-99	6-5	No Data Available			B9A	TT
12AF3	*** 23* 88*		12-6				120		REC	40mA		B9A	R
12AF6	412 365 100		12-6		12-6	12-6	0-75	1-1	No Data Available			B7G	P
12AJ6	412 314 600		12-6		12-6		0-75	1-2	No Data Available			B7G	TT
12AL8	654 237 141		12-6	{ 0-9 0-8	12-6 12-6	12-6	0-25 25	0-55 8	No Data Available			B9A	TP
12AU8	146 231 457		12-6	{ 150 200	150 200	125	8-5 15	4-9 7	100 100	60 100		B9A	TP
12B3	080 230 808	C ₁	12-6						D			B9A	R
12BC32	412 389 600		12	2	250		1	1-6	100		1-2	B7G	DDT
12BL6	412 365 100		12-6	0-65	12-6	12-6	1-4	1-3	No Data Available			B7G	P
12BR7A	641 228 913		6-3		100		3-7	4	100			B9A	DDT
12CN5	142 345 600		12-6		12-6	12-6	4-5	3-8	No Data Available			B7G	P
12CR5	154 231 541	A ₁	12-6	22-5	250	150	65	6	100	100		B9A	P
12CS5	514 234 1*6		12-6	10	200	125	47	8	100	100		B9A	P
12CX6	412 365 100		12-6		12-6	12-6	3	3-1	No Data Available			B7G	P
12CY6	412 365 100		12-6		12-6	12-6	1-6	3-2	No Data Available			B7G	P
12DB5	514 234 1*6		12-6	9-6	200	125	46	8	100	100		B9A	P
12DE8	418 236 151		12-6	0-8	12-6	12-6	1-3	1-5				B9A	DP
12DF5	801 229 013		6-3				30		REC	15mA		B9A	RR

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE I60					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
I2DK5	141 230 651		12-6		12-6	12-6	2	3-3	No Data Available			B9A	P
I2DK7	141 223 651		6-3		12-6	12-6	6	5	No Data Available			B9A	P
I2DL8	814 236 519		12-6	0-5	12-6	12-6	40	15	No Data Available			B9A	DDP
I2DM5	142 345 600		12-6	7-5	125	100	49	7-5	100	100		B7G	P
I2DQ7	141 223 651		6	2-1	200	125	26	10-5	100	100		B9A	P
I2DS7	805 236 419		12-6	2	12-6	12-6	40		No Data Available			B9A	DDP
I2DT5	504 234 1*6		12-6	16-5	250	250	38	6-2	100	100		B9A	P
I2F8	856 239 141		12-6	0	12-6	12-6	1	1	No Data Available			B9A	DDP
I2GB3	*2* 540 310		12-6	7-7	100	100	100	14	No Data Available			A08	P
I2GB6	020 540 070	A ₁	12-6	22-5	250	150	57	5-9	100	100	5	A08	P
I2GK17	001 080 230		12-6				120		REC		30mA	A08	R
I2Z3	281 300 000		12-6				30		REC		15mA	UX4	R
I7EW8	741 236 410		17	1-1	100		4-5	4-6	100		4-6	B9A	TT
I9A3	002 283 100		9-5				60		REC		20mA	B7G	R
I9D3	541 237 464		19	{ 0 2-6	100 200		13-5 7-6	7 2-4	100 100	60 100	3-7 2-4	B9A	TH
I9DC8	541 236 891		19	2	250	100	9	3-8	100	100		B9A	P
I9DE7	644 237 411		19-5	{ 11 17-5	250 150		5-5 35		100 100			B9A	TT
I9EA8	645 237 114		6-3	{ 1 1	150 125		18 12	8-5 6-4	100 100	60 100	8-5 6	B9A	TP
20A3	412 316 100		6		400		50	6	No Data Available			B9A	P
20D4	541 237 164		6-3	{ 0 2	100 250		15 7	3-5 2-8	100 100		3-3	B9A	TH
20RDHVI	145 237 864		20	{ 2 1	250 250		1-2 9	1-6 3-5	100 100	60 100		B9A	DTP
20Y1	023 100 080		20				60		REC		20mA	F8	R
20Y40	000 230 008		20				120		REC		30mA	B9A	R
21CW7	146 234 117		21	1-5	90		12	6	80		6	B9A	TT
21DJ8	641 237 410		21	1-3	90		15	12-5	No Data Available			B9A	TT
21ES8	641 237 410		21	1-2	90		15	12-5	No Data Available			B9A	TT
21L40	041 231 051	A ₁	21-5	28	200	200	40	6	100	100		B9A	P
22DE4	001 080 230		22-4				120		REC		30mA	A08	R
23	205 411 300	A ₁	2-5	90	400	150	43		No Data Available			UX7	P
25	205 411 300		6-3	90	400	150	43		No Data Available			UX7	P
25AC5	026 040 310		25	0	175		4	3-8	100		3-5	A08	T
25B5	267 413 000		25	{ 0 0	100 100		45 7	2-2	100		2	UX7	TT
25CR5	154 231 541		25	22-5	250	150	65	6	100	100		B9A	P
25D4	001 080 230		25				120		REC		30mA	A08	R
25DT5	504 234 1*6		25	16-5	250	250	38	6-5	100	100		B9A	P
25EH5	142 345 600		25	3-2	100	125	42	14-6	No Data Available			B7G	P
25FY8	414 237 516		25	{ 1-5 13-5	125 125		2-5 50	2 7	100 100	60 100	2	B9A	TP
25FG6	*2* 540 310	A ₁	25	21	175	175	100	11	No Data Available			A08	P
25GB6	020 540 310	A ₁	25	22-5	250	150	6-5	6	100	100		A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
25Y4	*20 080 310		25				60		REC		20mA	A08	R
26AE6	*** 23* **8	C	26						D			B9A	R
27BL8	645 237 114		27	{ 2 2	100 175		14 10	5 6.2	100 100	60 100	5	B9A	TP
30C13	645 237 114		9	{ 2 2	100 175		14 10	5 6.2	100 100	60 100		B9A	TP
30C15	157 236 411		9	{ }	125 200	125	6 7.6	5 8.5	100 100	60 100		B9A	TP
30L15	147 324 110		7	1.2	90		15	9	80		8	B9A	TT
30P18	041 23* 6*5		16	6	200	200	34	10	No Data Available			B9A	P
30P19	02* 540 310		25	21	175	175	100	11	No Data Available			B9A	P
30PL13	414 237 516		16	{ 7.9 20	200 250	250	10 77	3.4 10	100 100	60 100		B9A	TP
31BX7	461 471 230		31.5	17	250		42	7.2	No Data Available			A08	TT
32ET5	142 345 600		32	7.5	100	100	30	5.5	100	100		B7G	P
33A/101K	641 227 413		6.3	2	250		1.2	1.6	100			B9A	TT
34	204 140 300	A ₁ A ₂	6.3	36	300		80	4.4	No Data Available			UX7	TT
35A3	002 380 100		35				60		REC		20mA	B7G	R
35C3	002 380 100		35				60		REC		20mA	B7G	R
35CD6	021 040 350	A ₁	35	30	175	175	75	7.7	100	100		A08	P
35D5	401 236 050		35	10.5	175	175	52	9.5	100	100		B9A	P
35DZ8	414 237 516		35	{ }	125 150	125	0.8 45	1.4 7.5	100 100	60 100		B9A	TP
35L31	412 365 400		35	13	200	200	55	8	100	100	8	B7G	P
35Y31	002 380 100		35				120		REC		20mA	B7G	R
36AM3	002 283 100		36				60		REC		15mA	B7G	R
38A3	**1 23* **8		38				60		REC		20mA	B9A	R
45BQ5	041 23* 6*5		45	12.5	175	175	70	10	100	100		B9A	P
45DQ8	461 237 145		45	{ 1.7 12.5	200 175	175	3 70	4 10	100 100	60 100	4	B9A	TP
45DX8	461 237 145		45	{ 1.7 2.1	200 175	175	3 18	4	100 100	60 100		B9A	TP
49	265 413 000		6.3	50	400	250	95		No Data Available			UX6	P
50CA5	142 345 600		50	4.5	125	125	37	9.2	No Data Available			B7G	P
50DC4	002 363 100		25				60		REC		20mA	B7G	R
50EH5	142 345 600		50	3.2	100	125	42	14.6	No Data Available			B7G	P
50FY8	414 237 516		50	{ 1.5 13.5	125 125	125	2.5 50	2	100 100	60 100		B9A	TP
55N3	**1 23* **8		55				120		REC		30mA	B9A	R
60	200 300 000	D ₁ D ₂	5				120		REC		30mA	UX4	RR
75	020 000 300	A ₁ G ₁	6.3	60	400		82		No Data Available			A08	T
80A	298 300 000		5				60		REC		20mA	UX4	RR
100/200LLID	346 547 220		1.4	9.4	150	125	4		100	100		A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE			
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V					
210PGA	645 230 700	G ₁	2	{ 0	150		1.1		150	60	1.4	B7	H			
220	200 300 000		2.5		150	40	0.4		150	75	1.5					
246A	365 200 000	G ₁	3.3		1.5	125	40	1.5	0.39	REC				15mA	UX4	R
257A	260 300 000	G ₁	3.1		3	90		2.1	0.5	80				0.5	UX4	T
300A	364 200 000		5	97	400		80		No Data Available			UX4	T			
300B	364 200 000		5	97	400		80		No Data Available			UX4	T			
375A	026 540 310		20		40	40	12.5	4.7	No Data Available			A08	T			
381A	120 080 300		6.3				5		D			A08	D			
396A	214 607 413		6.3	2.2	150		8.2	5.5	100		6	B9A	TT			
403B	412 365 100		6.3		175	125	7.7	5.1	100	100		B7G	P			
408A	412 365 100		20	2	125	125	7.5	5	100	125	5	B7G	P			
409A	410 065 100		6.3		125	125	5.2	3.2	100	100		B7G	P			
410PT	462 350 000		4	1	100	150		2.5	100	PenLF	2.5	B5	P			
431U	892 300 000		4				60		REC		15mA	B4	RR			
451	892 300 000		1.8						REC			B4	RR			
501	653 420 000		1.4	0	40	40	1	0.8	No Data Available			B5A	P			
501AX	653 420 000		1.4	0	40	40	1	0.8	No Data Available			B5A	P			
502AX	653 420 000		1.2	1.25	40	40	0.6	0.55	No Data Available			B5A	P			
503AX	653 420 000		1.2	2	40	40	0.8	0.55	No Data Available			B5A	P			
505AX	653 420 000		0.625	0	30	30	0.15	0.17	No Data Available			B5A	P			
506AX	653 420 000		1.25	4.5	40	40	1.25	0.5	No Data Available			B5A	P			
506KB	892 300 000		4				30		REC		15mA	B4	RR			
507AX	265 436 200		2		40	40	0.9	0.5	No Data Available			B7G	P			
512AX	653 420 000		0.625	0.625	20	20	0.12	0.16	No Data Available			B5A	P			
518AX	653 420 000		1.25	2	40	40	0.8	0.55	No Data Available			B5A	P			
520AX	653 420 000		0.625	2.5	40	40	0.24	0.18	No Data Available			B5A	P			
521AX	653 420 000		1.25	3	20	20	0.8	0.4	No Data Available			B5A	P			
522AX	653 420 000		1.25	0	20	20	0.3	0.45	No Data Available			B5A	P			
523AX	653 420 000		1.25	1.2	20	20	0.3	0.36	No Data Available			B5A	P			
525AX	653 420 000		1.25	1.2	20	20	0.25	0.32	No Data Available			B5A	P			
526AX	653 420 000		1.2	1.5	20	20	0.45	0.4	No Data Available			B5A	P			
527AX	653 420 000		1.25	0	20	20	0.1	0.22	No Data Available			B5A	P			
528AX	653 420 000		1.25	0	20	20	0.3	0.45	No Data Available			B5A	P			
532DX	653 420 000		1.25	0	20	20	0.4	0.45	No Data Available			B5A	P			
533DX	653 420 000		1.25	0	20	20	0.35	0.4	No Data Available			B5A	P			
536AX	653 420 000		1.25	0	20	20	0.36	0.4	No Data Available			B5A	P			
537AX	653 420 000		1.25	1.5	20	20	0.45	0.4	No Data Available			B5A	P			
539DX	653 420 000		1.25	1.4	20	20	0.25	0.3	No Data Available			B5A	P			
541DX	653 420 000		1.25	0	30	30	0.25	0.42	No Data Available			B5A	P			
542DX	653 420 000		1.25	2	20	20	0.42	0.32	No Data Available			B5A	P			
542DXS	653 420 000		1.25	2	20	20	0.42	0.32	No Data Available			B5A	P			
544DX	653 420 000		1.25	0	30	30	0.13	0.32	No Data Available			B5A	P			
546DX	653 440 000		1.25	0	20	20	0.37	0.42	No Data Available			B5A	P			
547DX	653 420 000		1.25	0	30	30	0.24	0.42	No Data Available			B5A	P			
548DX	653 420 000		1.25	1.4	20	20	0.24	0.3	No Data Available			B5A	P			

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
553AXA	652 430 000		1.25	0	20	20	0.41	0.55	No Data Available			B5A	P
569AX	652 430 000		1.25		60	60	1.8	1.1	No Data Available			B5A	P
573AX	624 300 000		1.25	4	90		11	2	80		2	B5A	T
574AX	653 420 000		0.625	0.625	20	20	0.125	0.16	No Data Available			B5A	P
578	8*1 239 146		4.7	3	250		1	1.2	100		1.3	B9A	DDDT
608CX	623 410 000		6.3	2	125		9	5	100		5	B5A	T
619CX	623 410 000		6.3	2	250		4	4	100			B5A	T
660T	642 300 000		6	1	100			7.4	100		7.5	B4	T
829B	245 134 200	A ₁ A ₂	6.3		300	250	25	1.9	No Data Available			B7A	PP
832	245 134 200	A ₁ A ₂	6.3		150	125	30	3.5	100	PenLF	3.5	B7A	PP
832A	245 134 200	A ₁ A ₂	6.3		150	125	30	3.5	100	PenLF	3	B7A	PP
837	205 411 300		12.6	40	400	150	45		No Data Available			UX7	P
841	264 300 000		7.5	1	100			0.75	100		0.75	UX4	T
954	213 154 000	A ₁	6.3	3	250	100	2	1.4	100	100		7AA	P
956	213 154 000	A ₁	6.3	3	250	100	6.7	1.8	100	100		7AA	P
957	322 460 000		1.25	5	125		2	0.65	100			5AA	T
958A	322 460 000		1.25	20	125				No Data Available			5AA	T
959	322 154 000	A ₁	1.25	3	125	60	1.7	0.6	100	60		7AA	T
1005	008 092 030		6.3				30		REC		15mA	A08	RR
1006	289 300 000		1.75				120		REC		30mA	UX4	RR
1222	265 403 100		6.3	18	350	250	54	5.2	100	PenLF	5.2	A08	P
1236A	333 882 220		2						D			A08	R
1238	245 671 430		28	3.5	30	30	12.5	3.4	No Data Available			B8B	PP
1868	023 180 090		4				60		REC		20mA	F8	RR
1881A	892 300 000		4				30		REC		15mA	B4	RR
1884	120 908 030		2.5				15		REC		15mA	A08	RR
3041A	652 430 000		1.25	1	20	20	.2	.3	No Data Available			B5A	P
3310A	265 113 000		10		250	150	5.6	2	100	100		UX6	P
3311A	265 113 000		10		175	150	33	3	100	100		UX6	P
3328A	265 113 000		7.5		250	150	5.6	1.9	100	100		UX6	P
4045A	642 350 000		5	70	250	60	43	1.3	No Data Available			B5	P
4264A	364 200 000		1.5		100			6.3	100		6	UX4	T
4611	364 200 000		6	40	175		20	1.7	No Data Available			UX4	T
4611	642 300 000		6	40	175		20	1.7	No Data Available			B4	T
4612	642 300 000		4	40	250		40	2.7	No Data Available			B4	T
4623	123 000 000	D ₁	6.3				5		D			B3G	D
4635	642 310 000		4	16	200		12	9	No Data Available			B5	T
4651	023 180 090		6.3				60		REC		20mA	F8	RR
4654P	411 230 050	A ₁	6	14	250	275	72	8.5	No Data Available			8SC	P
4689	026 540 310		6.3		350	275	48		No Data Available			A08	P
4696	023 180 560	G ₁	6.3	2.5	250	150	8	14	No Data Available			F8	DP
5222	402 613 060		6.3	1	100		0.7	1.7	100		1.7	B8D	T
5642	023 000 000		1.25						D			B3G	D
5645	612 430 000		6.3	2.8	100		5	2.7	100		2.7	B5B	T

VALVE	SELECTOR SWITCH No.	T.C.	V _f	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	I _a mA	mA/V	Anode Volts	Screen Volts	mA/V		
5646	612 430 000		6-3	1-1	100		1-4	2-4	100		2-4	B5B	T
5702	652 311 400		6-3	2	125	125	7-5	5	100	100	5	B7G	P
5703	623 410 000		6-3	2	125		9	5	100		5	B5A	T
5704	623 100 000		6-3				5		D			B5A	R
5726	192 310 800		6-3				5		D			B7G	RR
5744	623 410 000		6-3	2	250		4	4	100			B5A	T
5784	652 311 400		6-3	2	125	125	5-2	3-2	100	100	3	B7G	P
5785	823 000 000		1-25						D			B3G	D
5798	741 231 460		26	0	20		2-3	3-1	No Data Available				TT
5814A	741 226 413		6-3	8-5	250		10-5	2-2	100		3	B9A	TT
5871	026 540 310		6-3	12-5	250	250	45	4-1	100	PenLF	4	A08	P
5904	402 013 060		26	0	20			5	No Data Available				T
5970	245 675 430		1-25		40	40	3	1-8	No Data Available			B8D	PP
5971	642 430 000		1-25	2-5	125		5-6	2-5	100			B5A	T
5972	652 420 000		1-25		60	60	2-5	1-3	No Data Available			B5A	P
5975	614 230 000		6-3		200		12-5	4	100		4	B5A	T
5995	802 310 000		6-3				30		REC		15mA	B5A	R
6049	412 163 510		6-3	1-5	100	100	7-4	3-5	100	100	3-5	B8A	P
6051	652 430 000		1-25	4	40	40	3	1-2	No Data Available			B5A	P
6055	402 013 060		26		40			4-7	No Data Available			B8D	T
6056	412 163 510		26		40	40		3	No Data Available			B8D	P
6088	653 420 000		1-25	1-25	40	40	0-6	0-5	No Data Available			B5A	P
6092	653 420 000		1-25	6-5	60	60	2-9	0-75	No Data Available			B5A	P
6149	623 410 000		6-3		125		9	5	100			B5A	T
6151	623 410 000		6-3		250		4	4	100			B5A	T
6152	614 230 000		6-3		200		12-5	4	100			B5A	T
6169	642 113 640		6	1	175		11-5	6-5	100		6-5	A08	T
6206	412 163 510		6-3	1-3	100	100	7-5	5	100	100	4-5	B8A	P
6222	402 613 080		6-3	1	100		0-7	1-7	100		1-7	B8D	T
6252	245 134 200		6-3	17	400	200	20	2-5	No Data Available			B7A	PP
6281	653 420 000		0-625		20	20			No Data Available			B5A	P
6286	624 300 000		1-25	2	60		6	2-1	No Data Available			B5A	T
6336A	471 461 230		6-3	60	200		75	5	No Data Available			A08	TT
6351	141 321 655		6-3	2	350	250	12-5	11-5	No Data Available			B9A	P
6352	2** 382 930		1-5						D			B8A	D
6360	414 226 573		6-3	15	200	200	30	3-3	No Data Available			B7A	PP
6384	106 052 430		6-3	22-5	250	250	77	5-4	No Data Available			A08	P
6417	601 235 144		12-6	42-5	300	250	50		No Data Available			B9A	P
6418	652 430 000		1-25	1-2	20	20	0-24	0-3	No Data Available			B5A	P
6486/A	410 263 511		6-3	2	125	125	3-5	3-2	125	125	3-5	B9A	P
6526	652 430 000		1-25	6	100	100	6-5	1-9	100	100		B5A	P
6528	471 461 230		6-3	20	200		90	15	No Data Available			A08	TT
6533	644 612 360		6-3		125		0-9	1-7	100			B8D	T
6535	672 344 100		6-3	0-85	100		8-5	5-3	100		5-3	B7G	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
6582A	410 263 511		6.3		125	125	7.5	4.5	100	100		B9A	P
6611	652 430 000		1.25		40	40	1	1	No Data Available			B5A	P
6612	652 430 000		1.25		40	40	3	3	No Data Available			B5A	P
6678	645 237 114		6.3	{ 1.6 0.9	150		18	8.5	100	60	9	B9A	TP
6690	742 163 410		6.3		250	100	10	5.2	100	100	5		
				0.8	100		8	4.8	100		4.8	B8A	T
6754	801 230 109		6.3				30		REC		15mA	B9A	RR
6788	412 163 510		6.3	1.4	100	100	0.8	1.15	100	100	1.1	B8A	P
6690	742 163 410		6.3	0.8	100		8	4.8	100		4.8	B8A	T
6754	801 230 109		6.3				30		REC		15mA	B9A	RR
6788	412 163 510		6.3	1.4	100	100	0.8	1.15	100	100	1.1	B8A	P
6814	402 013 060		6.3		100		10	6	100		6	B8A	T
6832	642 113 470		6.3		100		0.75	1	100			B8D	TT
6840	614 227 130		6.3		250		14	6.7	100			B8D	P
6851	641 227 413		6.3	3.1	250		1	1.2	100		1.2	B9A	TT
6854	214 607 413		6.3	19.6	150		8.2	5.2	100		5.2	B9A	TT
6872	521 413 100	A ₁	6.3	1	400	100	3.5	2.25	100	100		B7G	P
6877	402 634 016		6.3	12	100		75	6.5	No Data Available			B9A	T
6887	182 310 900		6						D			B7G	DD
6888	021 415 600		6.3		150	90	38		100	90		A08	P
6900	741 221 436		6.3	2	125		36	11.5	No Data Available			B9A	TT
6907	245 134 200	A ₁ A ₂	6.3	50	400	250	100		No Data Available			B7A	PP
6913	741 226 413		6.3	5	150		11	4.6	100			B9A	TT
6919	182 310 900		6				5		D			B7G	RR
6922	641 327 411		6.3		200				No Data Available			B9A	TT
6939	214 226 563		6.3	100	275	200	45	10	No Data Available			B9A	PP
6943	412 163 510		6.3		100	100	8	3.6	100	100	3.6	B8D	P
6944	412 163 510		6.3		100	100	7	3.2	100	100	3.2	B8D	P
6945	412 163 510		6.3		100	100	25	3.5	100	100		B8D	P
6946	402 013 060		6.3		100		9	3.8	100			B8D	T
6947	642 113 470		6.3		150		6.5	4	100			B8D	TT
6948	642 113 470		6.3		100		0.8	1.65	100			B8D	TT
6954	412 365 100		6.3	1	150	150	5.9	2	100	100		B7G	P
6968	402 365 100		6.3	2	125	125	7.5	5	125	100	4	B7G	P
6973	504 234 156		6.3	15	250	250	46	4.8	100	100		B9A	P
7025	741 226 413		6	2	250		1.2	1.6	150		1.6	B9A	TT
7027	526 544 310		6.3		200	200			100	100		B8A	P
7032	412 365 100		6.3	2	250	100	4.5	1.8	100	100		B7G	H
7036	412 365 100		6	0	75	75	6.3	2	80	75	2	B7G	H
7044	641 221 437		6.3	2	125		36	10	No Data Available			B9A	TT
7054	141 230 651		13.5	2.8	250	150	19	11.5	No Data Available			B9A	P
7055	182 310 900		13.5				5		D			B7G	RR
7056	412 365 100		13.5	2.2	200	150	9.5	6.2	100	100		B7G	P
7057	641 237 410		13.5	2.2	150		10	6.8	100			B9A	TT
7058	641 237 410		13.5		250		1.25	1.6	100			B9A	TT
7059	645 237 115		13.5	{ 1 0.9	150		18	8.5	100	60	8	B9A	TP
					250	100	10	5.2	100	100	5		

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA					A.V.T. DATA			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
7060	641 237 541		13.5	{ 1.5 1.6	150 200		9 15	4.9 7	100 100	60 100		B9A	TP
7061	504 324 156		13.5	10	200	200	36	4.2	100	100		B9A	P
7062	641 227 413		6.3	0.8	100		8.5	7.8	100		8.5	B9A	TT
7118	641 227 413		6.3	1.4	100		8.5	5.6	100		5.6	B9A	TT
7119	641 221 437		6.3	7	175		2.3	6.4	100		6.4	B9A	TT
7125	541 236 891		6.3	2	250	100	9	3.8	100	100	3.6	B9A	DDP
7137	412 344 600		6.3	1.3	150		13.5	8.5	No Data Available			B7G	T
7150	631 421 1*5		6.3	0	125	125	24	34	No Data Available			B9A	P
7167	412 365 100		13.5	1	125	80	10	8	No Data Available			B7G	P
7189	441 235 6*5		6.3	7.3	250	250	48	11.3	No Data Available			B9A	P
7199	675 231 414		6.3	{ 8 1.5	200 225		9 12.5	2 7	100 100	60 100		B9A	TP
7212	125 142 360		6.3	28	200	200	100	7	No Data Available			A08	P
7227	*41 23* 651		27.5	2.5	40	40	8	5	No Data Available			B9A	P
7244	672 344 100		6	0.45	100		9	6	100		5	B7G	TT
7245	412 344 600		6.3		150		13.5	11	100			B7G	T
7247	641 227 413		6.3	{ 2 8.5	250 250		1.2 10.5	1.6 2.2	100 100		1.6 2.2	B9A	TT
7258	641 237 541		12.5	{ 3 7.3	150 125		15 12	4.5 7.8	100 100	60 100		B9A	TP
7320	041 230 605		6.3	7.3	250	250	48	11.3	100	100		B9A	P
7355	026 014 350		6.3	15	250	250	70	7.6	100	100		A08	P
7358	125 141 300		6.3		200	200	100	7	100	100		A08	P
7408	026 540 310		6.3	12.5	250	250	4.7	4.6	100	100		A08	P
7581	026 540 310		6.3	14	250	250	72	6	No Data Available			B8A	P
9004	203 180 000		6.3				5		D			5AA	R
9005	233 810 000		3.6						D			5AA	D
95108	653 420 000		1.25	1	40	40	2.25	1	No Data Available			B5A	P
824476	461 471 230		6	8	250		9	2.6	100		2.6	A08	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
A23A	809 231 600	G ₁	4	7	250		4	2	100		2	B7	DDT
A104	642 300 000		1.1	10	100		5	0.35	100		0.3	B4	T
A106	642 300 000		1.3	9	100		2	0.4	100		0.4	B4	T
A106	364 200 000		1.3	9	100		2	0.4	100		0.4	B4	T
A109	642 300 000		1.3	9	150		2	0.45	100		0.45	B4	T
A109	364 200 000		1.3	9	150		2	0.45	100		0.45	UX4	T
A110	642 300 000		1.3	4.5	125		3	0.4	100		0.4	B4	T
A110	264 300 000		1.3	4.5	125		3	0.4	100		0.4	UX4	T
A203	642 300 000		2	30	150		12	1.5	100			B4	T
A205	642 300 000		2	18	150		7	1.2	100			B4	T
A209	642 300 000		2	9	150		4	1.0	100			B4	T
A209	264 300 000		2	9	150		4	1.0	100			UX4	T
A210	364 200 000		2	9	150		3	1.0	100			UX4	T
A214	642 300 000		2	3	150		4.5	1.3	100		3	B4	T
A225	642 300 000		2	3	150		1	1	100		1	B4	T
A225	364 200 000		2	3	150		1	1	100		1	UX4	T
A235	200 300 000	D ₁	6				30		REC		15mA	UX4	R
A242	265 300 000		2	3	150	60	1.7	0.64	100	60		UX4	P
A303	364 200 000		3.3	27	250		3	0.6	100			UX4	T
A306	364 200 000		3.3	15	150		1.5	0.4	100			UX4	T
A414	364 200 000		4	4.5	150		3	2	100		2	UX4	T
A414	642 300 000		4	4.5	150		3	2	100			B4	T
A1860	502 332 406		2.5	7	200	150	35	6	100	100		B9A	T
A2030N	642 310 000		20	3	200		6	2.3	100		2.3	B5	T
A2040N	642 310 000		20	1.6	200		0.2	3	100		1	B5	T
A2293	*1* 234 **6	A ₁	6.3	23	150		100	12	No Data Available			B9A	T
A2426	*2* 54* 310		6.3	13.5	150	150	50	8	No Data Available			AO8	P
A2521	414 464 234		6.3	1	125		15	15	No Data Available			B9A	T
A2599	411 231 146		6.3	1	125		16	15	No Data Available			B9A	T
A2674	211 403 506		6.3	1.4	175	150	23	30	No Data Available			B9A	P
A2688	412 314 600		6.3	1	100		12	11.5	No Data Available			B7G	T
A2738	*26 541 310		6.3		250	175	50	10	100	100		AO8	P
A2744	414 464 234		6.3	1.0	125		16	15	No Data Available			B9A	T
A2913	413 314 600		6.3		175		15.5	14	No Data Available			B9A	T
AA91E	182 310 900		6.3				5		D			B7G	DD
AC101	602 310 000	G ₁	4	5.5	250		7	2.7	100			B5	T
AC/SP3/RH	061 231 500	G ₁	4	1.5	250	100		7.5	100	100		B7	P
AD	281 300 000		6.3				30		REC		15mA	UX4	R
ADIN	023 004 060		4		300		60		100			F8	T
ADI01	642 310 000		4	26.5	250		40	4.6	100			B5	T
AL860	502 331 460		2.4	7	200	150	35	6	100	100		B8D	P
AV11	200 300 000	D ₁	2.5						REC			UX4	R
B109	741 236 410		26	1.5	175		10	6.2	100		6	B9A	TT
B349	147 234 116		7	1.2	90		15	9	80		9	B9A	TT
B435N	642 310 000	D ₁	4	3.5	200		6	2	100		2	B5	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
B729	741 236 410		6-3		200		10	3-4	100		3-5	B9A	TT
C3A	261 504 130		6-3		225	150	16	6-5	100	100		B8G	P
C543	642 350 000		4	1	100	150		2	100	150	2	B5	P
CC81E	641 227 413		6-3	0-6	250		10	5-5	100		5-5	B9A	TT
CC82E	641 227 413		6-3	8-5	250		10-5	2-2	100		2-5	B9A	TT
CK108	265 113 000	G ₁	6-3	3	250	100	2-3	1-25	100	100		UX6	P
CK507AX	653 420 000		1-25	2	40	40	0-9	0-6	No Data Available			B5A	P
CK509AX	634 200 000		6-25	0	40		15	16	No Data Available			B5A	T
CK515BX	634 200 000		6-25	0	40		15	16	No Data Available			B5A	T
CK518AX	653 420 000		1-25	2	40		0-8	0-55	No Data Available			B5A	T
CK520AX	653 420 000		6-25	2-5	40	40	24	0-15	No Data Available			B5A	P
CK521AX	653 420 000		1-25	3	20	20	0-6	0-4	No Data Available			B5A	P
CX523AX	653 420 000		1-25	1-2	20	20	0-3	0-36	No Data Available			B5A	P
CK524AX	653 420 000		1-25	1-75	20	20	0-45	0-3	No Data Available			B5A	P
CK525AX	653 420 000		1-25	1-2	20	20	25	32	No Data Available			B5A	P
CK526AX	653 420 000		1-25	1-5	20	20	53	45	No Data Available			B5A	P
CK527AX	653 420 000		1-25		20	20	0-1	22	No Data Available			B5A	P
CK528AX	653 420 000		1-25	1-25	40	40	67	56	No Data Available			B5A	P
CK529AX	653 420 000		1-25	1-25	20	20	32	35	No Data Available			B5A	P
CK531DX	653 420 000		1-25	1-5	20	20	3	25	No Data Available			B5A	P
CK532DX	653 420 000		1-25		20	20	4	45	No Data Available			B5A	P
CK533AX	653 420 000		1-25		20	20	36	4	No Data Available			B5A	P
CK535AX	653 420 000		1-25	1-25	20	20	32	35	No Data Available			B5A	P
CK536AX	653 420 000		1-25		20	20	36	4	No Data Available			B5A	P
CK537AX	653 420 000		1-25	1-5	20	20	52	42	No Data Available			B5A	P
CK539DX	653 420 000		1-25	1-4	20	20	25	3	No Data Available			B5A	P
CK541DX	653 420 000		1-25		30	30	25	42	No Data Available			B5A	P
CK542DX	653 420 000		1-25	2	20	20	42	32	No Data Available			B5A	P
CK542DX5	653 420 000		1-25	2	20	12-6	42	32	No Data Available			B5A	P
CK544DX	653 420 000		1-25		30	30	12	32	No Data Available			B5A	P
CK545DX	653 420 000		6-25	6-25	20	20			No Data Available			B5A	P
CK547DX	653 420 000		1-25		30	30	24	42	No Data Available			B5A	P
CK5608	264 147 300		2-5	6	300		6	2-4	100			UX7	TT
CK5608A	264 147 300		2-5	6	300		6	2-4	100			UX7	TT
CK5639	412 163 510		6-3		150	100	21	9	150	100		B8D	P
CK5639A	412 163 510		6-3		150	100	21	9	150	100		B8D	P
CK5654	412 365 100		6-3	2	125	125	7-5	5	100	100		B7G	P
CK5656	544 231 671		6-3	2	150	125	15	5-8	100	100		B9A	PP
CK5670	214 607 413		6-3	2	150		8-2	5-5	100			B9A	TT
CK5672	653 420 000		1-25	6-5	60	60	3-2	65	No Data Available			B5A	P
CK5676	624 300 000		1-25	5	125		4	1-6	100		1-6	B5A	T
CK5677	624 300 000		1-25	5-5	125		1-9	85	100		1-9	B5A	T
CK5678	652 430 000		1-25		60	60	1-8	1-1	No Data Available			B5A	P
CK5687	641 221 437		6-3	2	125		36	11	No Data Available			B9A	TT
CK5692	461 471 230		6-3	9	250		6-5	2-2	100			AO8	TT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
CK5693	126 447 310		6.3	6	300		7	3.2	100			B8B	TT
CK5694	126 447 310		6.3	6	300		7	3.2	100			AO8	TT
CK5697	632 400 000		6.25	3	12.6		22	13	No Data Available			B5A	T
CK5702	653 420 000		6.3		125	125	7.5	5.0	100	100		B7F	P
CK5702WA	653 420 000		6.3		125	125	7.5	5.0	100	100		B7F	P
CK5702WB	653 420 000		6.3		125	125	7.5	5.0	100	100		B7F	P
CK5703	623 410 000		6.3		125		9	5.0	100		5.0	B5A	P
CK5703WA	623 410 000		6.3		125		9	5.0	100		5.0	B5A	P
CK5703WB	623 410 000		6.3		125		9	5.0	100		5.0	B5A	P
CK5704	823 100 000		6.3				5		D			B5A	DD
CK5704WA	823 100 000		6.3		125		5		D			B5A	DD
CK5725	412 365 100		6.3	2	125	125	5.2	3.2	100	100		B7G	P
CK5726	182 310 900		6.3				5		D			B7G	DD
CK5744	623 410 000		6.3		250		4	4	100			B5A	T
CK5744WA	623 410 000		6.3		250		4	4	100			B5A	T
CK5744WB	623 410 000		6.3		250		4	4	100			B5A	T
CK5749	412 365 100		6.3		250	100	11	4.4	100	100	4.4	B7G	P
CK5751	641 227 413		6.3	3	250		1.0	1.2	100		1.2	B9A	TT
CK5755	614 224 173		6.3	.95	100		15	.5	100		0.5	B9A	TT
CK5784	652 311 400		6.3	2	125	125	5.2	3.2	100	100		B7F	P
CK5784WA	652 311 400		6.3	2	125	125	5.2	3.2	100	100		B7F	P
CK5785	823 000 000		1.25						D				D
CK5814	641 227 413		6.3	8.5	250		10.5	2.2	100			B9A	TT
CK5829	812 139 100		6.3				5		D			B7F	DD
CK5829WA	812 139 100		6.3				5		D			B7F	DD
CK5851	206 035 240		1.25	7.5	125	125	5.5	1.6	100	100		B8D	P
CK5854	652 430 000		1.25	2	40	40	0.8	0.55	No Data Available			B5A	P
CK5873	264 114 730		6.3	3	150		9	2.9	100			B8D	TT
CK5875	652 430 000		1.25	0	90	90	3.5	2.5	80	75		B5A	P
CK5879	401 230 571		6.3	3	250	100	1.8	1.0	100	100		B9A	TT
CK5881	026 540 310		6.3	14	150	250	75	6.1	100	100		A08	P
CK5910	265 024 300		1.4		90	90	1.6	0.9	100		0.9	B7G	P
CK5965	641 227 413		6.3		150		8.2	6.5	100			B9A	TT
CK5967	624 334 270		1.25		40		3	0.175	No Data Available			B8D	TT
CK5968	624 334 270		1.25		40		0.7	1.3	No Data Available			B8D	TT
CK5969	245 675 430		1.25	3	125	40	6	1.7	No Data Available			B8D	PP
CK5970	245 675 430		1.25		40	40	3	1.85	No Data Available			B8D	PP
CK5971	642 430 000		1.25		60		3.5	2.1	No Data Available			B5A	P
CK5972	652 430 000		1.25		60	60	2.5	1.3	No Data Available			B5A	T
CK5975	614 230 000		6.3		100		10	5.1	100		5	B5A	T
CK5995	8*2 310 000		6.3				30		REC		15mA	B5A	R
CK6005	412 365 400		6.3	12.5	250	250	45	4.1	100	PenLF	4	B7G	P
CK6021	642 113 470		6.3		100		6.5	5.4	100		5.4	B8D	TT
CK6029	624 300 000		1.25	4	90		11	2	80		3	B5A	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
CK6050	624 300 000		1·25	5	125		4	1·6	100		2	B5A	T
CK6051	652 430 000		1·25	4	40	40	3	1·2	No Data Available			B5A	P
CK6088	653 420 000		1·25	1·25	40	40	0·67	0·56	No Data Available			B5A	P
CK6092	653 420 000		1·25	4·5	40	40	1·4	0·6	No Data Available			B5A	P
CK6100	602 364 100		6·3	8·5	250		10·5	2·2	100			B7G	T
CK6101	672 344 100		6·3		100		9	6	100		6	B7G	TT
CK6110	812 093 100		6·3						D			B8D	DD
CK6111	642 113 470		6·3		100		8·5	5	100		5	B8D	TT
CK6112	642 113 470		6·3		100		0·8	1·8	100		2	B8D	TT
CK6135	602 364 100		6·3	8·5	250		10·5	2·2	100		2·2	B7G	T
CK6147	206 035 240		1·25	7·5	125	125	5·5	1·6	100	100		B8D	P
CK6152	614 230 000		6·3		100		10	5·1	100		5	B5A	T
CK6186	412 365 100		6·3		250	150	7	5	100	100		B7G	P
CK6201	641 227 413		6·3		250		10	5·5	100			B9A	TT
CK6245	652 311 400		6·3	0	20	30	2·5	3·3	No Data Available			B7G	P
CK6247	442 613 060		6·3		250			2·6	100			B8D	T
CK6247WA	442 613 060		6·3		250			2·6	100			B8D	T
CK6286	624 300 000		1·25	2	60		6	2·1	No Data Available			B5A	T
CK6397	206 035 240		1·25	7·5	125	125	7·2	2	100	100		B8D	P
CK6418	652 430 000		1·25	1·2	20	20	0·24	0·3	No Data Available			B5A	P
CK6419	652 430 000		0·625	0·625	12·6	12·6			No Data Available			B5A	P
CK6485	412 365 100		6·3		300	150	10	9	100	100		B7G	P
CK6519	653 420 000		1·25		20	20	0·38	0·42	No Data Available			B5A	P
CK6526	652 430 000		1·25	6	100	100	6·5	1·9	100	100	2	B5A	P
CK6533	644 612 360		6·3		125		0·9	1·7	100			B8D	T
CK6533WA	644 612 360		6·3		125		0·9	1·7	100			B8D	T
CK6540	652 311 400		6·3		125		7·5	5	100			B7G	P
CK6611	642 113 470		6·3		100		8·5	5	100		5	B8D	TT
CK6612	642 113 470		6·3		100		0·8	1·8	100		1·8	B8D	TT
CK6872	652 311 400		6·3		125	125	7·7	4·1	100	100		B7G	P
CO241	026 500 300	G ₁	2	1	125	75	3·5	1·4	125	80	1·4	A08	P
CO243	026 447 300		2		125		4	1·8	100		1·8	A08	TT
CO244	026 540 300		2	2·5	125	125	4·1	1·8	125	125	1·8	A08	P
CO257	021 450 300		2	3	100	100	6	2·5	100	100	3	A08	P
CO258	026 540 300		1·8	6	150	125	10	2	100	100		A08	P
D3A	141 230 615		6·3		200	150	22	36	No Data Available			B9A	P
D143	652 350 000		1	1	100	150		1·2	100		1·2	B5	P
D401	902 310 000	D ₁	4						D			B4	DD
DAF961	208 564 300		1·2	0	60	60	2·2	0·7	No Data Available			B7G	DP
DF16	654 230 000		0·625	0	20	20	0·3	0·26	No Data Available			B5A	P
DF63	652 430 000		1·25	2·5	90	90	1·2	0·45	80	80	0·6	B5A	P
DF668	652 430 000		1·25	1·6	90	90	5·7	2·3	80	90		B5A	P
DF669	652 430 000		1·25	0	60	60	1·8	1·1	No Data Available			B5A	P
DF961	265 024 300		1·25	0	60	60	3·4	0·85	No Data Available			B7G	P
DH109	†91 238 146		28	2·3	200		1	1·4	100		1·4	B9A	DDDT

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
DH118	264 089 130		13	1	100		0.8	1.4	100		1.4	B8A	DDT
DH119	641 238 09*		13	0.7	100		0.8	1.4	100		1.4	B9A	DDT
DH718	264 089 130		6.3	3	250		1	1.3	100		1.4	B8A	DDT
DK31	027 546 300	G ₁	1.4	{ 1 1	80 125	60 90			80 125	60 90		A08	TH
DL29	265 004 320		1.4	4.5	90	90	9.5	2.4	80	90	2.4	B8G	P
DL161	654 230 000		1.4	0	20	20	0.55	0.5	No Data Available			B5A	P
DL650	653 420 000		1.25	0	20	20	0.4	0.45	No Data Available			B5A	P
DL962	264 536 200		1.4	7	60	60	7	1.5	No Data Available			B7G	P
DL963	265 436 200		1.2	7.5	150	60	10	2.2	100	60		B7G	P
DO42	819 236 500	G ₁	40	1	100	150		9	100	150	8	B7	DDP
DT41	809 321 600	G ₁	4	1	100			3	100		3	B7	DDT
DT215	023 089 060	G ₁	2	4.5	125		25	1	100		1	8SC	DDT
DT215	682 390 000	G ₁	2	4.5	125		2.5	1.5	100		1.5	B5	DDT
DT436	809 231 600	G ₁	4	7	250		4	3.6	100		2	B7	DDT
DTV1	809 231 600	G ₁	13	1	100			3	100		3	B7	DDT
DW15	892 300 000		7.5				30		REC		15mA	B4	RR
DY70	230 000 000	D ₁	1.25						D			B3G	D
E80CF	645 237 114		6.3	{ 2 2	100 175	175	14 10	5 6.2	100 100	60 100	6 5.5	B9A	TP
E81CC	641 224 173		6.3		250		10	5.5	100		5.5	B9A	TT
E82CC	641 227 413		6.3	8.5	250		10.5	2.2	100			B9A	TT
E83CC	641 227 413		6.3	2	250		1.2	1.6	100		1.6	B9A	TT
E86C	641 234 146		6.3	2	175		12	14	No Data Available			B9A	T
E90F	412 365 100		6.3	1.2	250	150	7.4	4.6	100	100		B7G	P
E91AA	182 310 900		6.3						D			B7G	D
E95F	412 365 100		6.3	2	125	125	7.5	5.5	100	100		B7G	P
E99F	412 365 100		6.3	20	250	100		15	No Data Available			B9A	P
E182CC	741 221 436		6.3	2	125		36	15	No Data Available			B9A	TT
E184	141 230 651		6.3	2.5	200	200	10	15	No Data Available			B9A	P
E188CC	641 327 410		6.3	1.4	90		12	11.5	No Data Available			B9A	TT
E220B	446 230 700		2	1	125		3	2.5	100		2.5	B7	TT
E235L	*26 54* 310		6.3	8.2	100	100	100	14	No Data Available			A08	P
E236L	*2* 54* 310	A ₁	6.3	8.2	100	100	100	14	No Data Available			A08	P
E280F	141 23* 615		6.3		200	150	20	26	No Data Available			B9A	P
E283CC	146 231 074		6.3	2	250		1.2	1.6	100			B9A	TT
E438M	642 310 000		4	3	200		2.5	1.5	100			B5	T
E441	642 310 000	G ₂	4	0	100	100	1.7	1	100	100		B5	P
E445M	542 310 000	A ₁	4	2	200	100	6	1	100	100		B5	P
E810F	141 235 615		6.3	1.9	125	150	35	50	No Data Available			B9A	P
E1861	041 230 651		6.3		200	200	19	10	No Data Available			B9A	P
E2754	602 441 443		6.3	1.5	150		25	25	No Data Available			B9A	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
EA63	541 231 600	D ₁	6-3	5-5	250	250	36	10-5	No Data Available			B9A	P
EA962	200 100 300		6-3						D			B7G	D
EAA901S	182 310 900		6-3						D			B7G	DD
EB111	023 004 060		4	50	250		60	5-2	100			F8	T
EBF2G	206 589 130		6-3	2	250	100	5	1-8	100	100	1-8	A08	DDP
EBF83	541 236 891	A ₁ G ₁	6-3		12-6	12-6	0-45	1	No Data Available			B9A	DDP
EC56	*21 0*0 310		6-3	1-8	175		30	15	No Data Available			A08	T
EC57	*21 0*0 310		6-3	1-8	175		30	15	No Data Available			A08	T
EC71	402 013 060		6-3		100		8-5	5-8	100		5-8	B8D	T
EC86	641 234 146		6-3	1-5	75		12	14	No Data Available			B9A	T
EC88	414 234 464		6-3	1-25	150		12-5	14	No Data Available			B9A	T
EC95	142 361 700		6-3	1-2	200		10	10-5	No Data Available			B7G	T
EC98	412 344 600		6-3	1-35	150		13-5	13-5	No Data Available			B7G	T
EC157	*21 0*0 310		6-3	2	175		44	22	No Data Available			A08	T
EC760	462 603 160		6-3	2-4	150		13	6-5	100			B8D	T
EC903	642 314 600		6-3	4	100		16	8	No Data Available			B7G	T
ECC70	742 113 460		6-3	1	100		6-5	5-4	100		5-4	B8D	TT
ECC86	641 237 410		6-3	0-35	12-6		2-5	4-6	No Data Available			B9A	TT
ECC88	741 236 410		6-3	1-2	90		15	12-6	No Data Available			B9A	TT
ECC186	641 227 413		6-3	8-5	250		10-5	2-2	100		3-1	B9A	TT
ECC189	641 327 410		6-3	1-2	90		15	12-5	No Data Available			B9A	TT
ECC230	461 471 230		6-3	30	100		100	6-5	No Data Available			A08	TT
ECC801S	641 227 413		6-3		250		10	5-5	100			B9A	TT
ECC802	641 227 413		6-3	8-5	250		10-5	2-2	100		1-6	B9A	TT
ECC803	641 227 413		6-3	2	250		1-2	1-6	100		1-6	B9A	TT
ECC865	641 237 410		6-3	14	175		8-7	6	100		6-5	B9A	TT
ECC960	672 344 100		6-3	2-1	100		8-5	6	100		6	B7G	TT
ECC962	672 344 100		6-3	1-7	150		8-5	6	100		6	B7G	TT
ECF83	146 237 514		6-3	{ 3-7	60		6-5	3-6	No Data Available			B9A	TP
				{ 60		50	3	1-3					
ECF86	141 236 675		6-3	{ 3	100		14	5-5	100	60	6	B9A	TP
				{ 1-2	175	150	10	12	No Data available				
ECH3G	027 546 310		6-3	{ 2	100		5	2-4	100	60	2-8	A08	TH
				{ 2	250	100	4-8	2-5	100	100			
ECH83	541 237 164		6-3	{ 12-6			0-73	1-4	No Data Available			B9A	TH
				{ 12-6		12-6	0-4	0-75					
ECH113	276 454 130		6-3	{ 2	100		4-8		100	60		B8A	TH
				{ 2	250	90	3		100	100			
ECH171	642 544 371		6-3	{ 2	250		3		100	60		B8B	TH
				{ 2	250	75	2		100	60			
ECL84	641 237 145		6-3	{ 1-7	200		3	4	100	60	4	B9A	TP
				{ 2-9	200	200	18	10-4	100	100			

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
ECL85	641 237 514		6-3	{ 0-8 15	100 175		5 41	6-5 7-5	100 100	60 100	6-5	B9A	TP
ECL86	415 237 146		6-3	{ 1-9 7	250 250		1-2 36	1-6 10	100 100	60 100	1-6	B9A	TP
EEI	023 180 560		6-3	2-5	250	150	8	14	No Data Available			F8	DP
EEL171	542 654 371		6-3	{ 12 2	250 100	250 50	40 3	9	100 100	100 60		B8B	PP
EF6N	023 110 560	G ₁	6-3	2	250	100	3	2-1	100	100	2	8SC	P
EF9N	023 110 560	G ₁	6-3	3	250	100	8	1-8	100	100	2-2	8SC	P
EF89F	041 230 651		6-3	20	250	100	11	4-4	100	100	5	B9A	P
EF97	412 365 100		6-3	0-7	12-6	12-6			No Data Available			B7G	P
EF98	412 365 100		6-3	1	12-6	12-6	4-8	3	No Data Available			B7G	P
EF183	141 230 651		6-3	2	200	90	12	12-5	No Data Available			B9A	P
EF184	141 230 651		6-3	2-5	200	200	10	15	No Data Available			B9A	P
EF730	562 603 160		6-3	1	100	100	5-3	3-2	100	100	3-5	B8D	P
EF731	412 163 510		6-3		100	100	7-2	4-5	100		4-5	B8D	P
EF732	412 163 510		6-3	1-5	100	100	7-5	5	100	100	5	B8D	P
EF734	412 163 510		6-3	1-5	100	100	7-5	5	100	100	5	B8D	P
EF762	412 163 510		6-3	1-5	100	100	7-5	5	100	100	5	B8D	P
EF806S	501 236 014		6-3		250	150	3-2	2	100	100		B9A	P
EF860	141 230 651		6-3		250	250	10	6-8	100	100		B9A	P
EF861	141 230 615		6-3	1-1	175	150	13	16-5	No Data Available			B9A	P
EF905	412 365 100		6-3	2	125	125	7-5	5	100	100		B7G	P
EFP60	214 156 163		6-3	2	250	150			No Data Available			B9G	P
EK2G	026 545 310		6-3	2	250	75	2-7	1-8	100	60	2-1	A08	O
EL3/425	023 104 560		6-3	15-6	400	300	25	3	No Data Available			8SC	P
EL3NG	026 540 310		6-3	6	250	250	36	9	100	PenLF	8	A08	P
EL5	023 104 560		6-3	15	250	275	72	8-5	No Data Available			8SC	P
EL5G	026 540 310		6-3	14	250	275	72	8-5	100	PenLF	8-5	A08	P
EL5/600	023 114 500	A ₁	6-3		250	275	72	8-5	100	PenLF	8-5	8SC	P
EL30	026 541 310		6-3	4-5	250	250	18	6-5	100	100		A08	P
EL71	412 163 510		6-3	8-5	100	100	30	4	100	100		B8D	P
EL131	126 54* 310		6-3	12	250	250	100	11	No Data Available			A08	P
EL183	541 231 640		6-3		200	200	40	25	No Data Available			B9A	P
EL300	521 441 350		6-3	22-5	200	150	100	10	No Data Available			B8A	P
EL360	*2* 540 310	A ₁	6-3	7-7	100	100	100	14	No Data Available			A08	P
EL803S	541 321 600		6-3		200	200	32	10	No Data Available			B9A	P
EL861	041 230 651		6-3		200	200	20	11	No Data Available			B9A	P
EL863	541 231 600		6-3	5-5	250	250	36	11	No Data Available			B9A	P
ELL80	546 234 175		6-3		250	250	24		100	100		B9A	PP
EMG1	452 361 100		6-3	4-5	20	20	7	4	No Data Available			B7G	P
EY88	*** 23* **8	C ₁	6-3				120		REC			40mA B9A	R
EY3000	023 100 000	D ₁	6-3				120		REC			20mA 8SC	R

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
EZ900	802 309 100		6-3				30		REC		15mA	B7G	RR
F2A11	602 301 450		6-3	6-5	250	250	100	18	No Data Available			F8	P
FI09A	642 300 000		1-5	14-5	175		6-2	1-15	100			B4	T
FI09A	264 300 000		1-5	14-5	175		6-3	1-15	100			UX4	T
F/7001	412 365 100		6-3	0	125	125	35	4-8	100	100	4	B7G/F	P
G/6C4	602 364 100		6-3	8-5	250		10-5	2-2	100		3	B7G	T
G2080	023 100 080		20				60		REC		15mA	8SC	R
G3060	123 190 080		30				60		REC		20mA	8SC	RR
G4120N	892 300 000		4				60		REC		40mA	B4	R
GZ37	030 908 020		5 (5-7)				120		REC		40mA	A08	RR
HD30	524 332 600		1-25	75	150	125		1-7	No Data Available			B7G	P
HD93	23* 232 *32	D ₁	1-25						D			B9A	D
IF860	141 230 651		20		200	200	8-5	6-6	100	100		B9A	P
IL861	041 239 651		20		200	200	20	11	100	100		B9A	P
IW4	892 300 000		4				60		REC		40mA	B4	RR
KT77	026 540 310		6-3		250	250	100	11-5	100	100		A08	P
LN119	414 237 516		50	{ 0	100		3-5	2-5	100	60	2-5	B9A	TP
				{ 16	200	200	35	6-4	100	100			
LN319	641 237 154		13	{ 200	175	175	10	3-4	100	60	3-4	B9A	TP
				{ 9	175	175	32	6-5	100	100			
LN329	645 237 114		9	{ 2	100		14	5	100	60	6	B9A	TP
				{ 2	175	175	10	6-2	100	100			
LS5	642 300 000		4-7	47	400		25		No Data Available			B4	T
LS5A	642 300 000		5-2		400		33	0-91	No Data Available			B4	T
LZ329	645 237 114		9	{ 2	100		14	5	100	60	5	B9A	TP
				{ 2	175	175	10	6-2	100	100	5		
M8080	602 264 100		6	8-5	250		10-5	2-2	100		3	B7G	T
M8091	**1 23* ***	D ₁	6-3				120		REC		30mA	B9A	R
M8196	412 265 100		6-3	2	125	125	5-5	3-5	100	100	3	B7G	P
M8212	182 310 900		6-3				5		D			B7G	DD
M8245	412 365 400		6-3	12-5	250	250	45	4-1	100	PenLF	4	B7G	P
N25	365 *24 300		1-4	5-2	90	90	5	1-4	80	75	1-4	B7G	P
N34	105 231 600	G ₁	13		250	250	40	10-5	No Data Available			B7	P
NI18	26* *54 130		40	6	150	150	30	7-5	100	100		B8A	P
NI19	*41 23* 6*5		45	12-5	175	175	70	10	No Data Available			B9A	P
N308	02* 54* 310	A ₁	25	9-5	100	100	100	13	No Data Available			A08	P
N369	041 23* 6*5		12-6	10-3	175	175	31	8-3	No Data Available			B9A	P
N379	*41 23* 6*5		15	12-5	175	175	10		No Data Available			B9A	P
O6F90	652 430 000		0-625	1-1	20	20	0-05	0-1	No Data Available			B5A	P
O54V	642 310 000		4	0	100			4	100			B5	T
O202	645 230 000	G ₁	2	{	150	50	2		100			B7	O
				{	150	75	0-95	0-2	100	75	1		
O406	645 231 700	G ₁	4	{ 4	90	90	2	1	100	90	1-3	B7	O
				{ 4	250	90	1-6	1	250	90	1-5		
O1307	023 154 560	G ₁	4	1-5	200	90	8	3	200	75	1-6	8SC	P
OM5B	026 510 310	G ₁	6	2	250	100	3	1-8	100	100	1-6	A08	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
OSW2190	021 414 360		6.3	2	300	150	10	9	No Data Available			A08	P
OSW2192	120 415 360		6.3	3	300	150	30	11	No Data Available			A08	P
OSW2600	021 415 360		6.3	2	300	150	10	9	No Data Available			A08	P
OSW2601	120 415 360		6.3	3	300	150	30	11	No Data Available			A08	P
P226	023 004 560		2	5	125	125	7	2.1	80	75	2.9	8SC	P
P421	642 350 000		4	11	200	75	12	1.5	100	75		B5	P
P425	642 350 000		4	25	300	200	20	1.7	100	PenLF	1.7	B5	P
P440N	642 310 000		4		250	250	20	2.5	100	PenLF	2.8	B5	P
P455	023 100 560		4	25	250	250	36	2.6	100	PenLF	2.8	8SC	P
P625	642 300 000		6	26	250		24	2.5	100			B4	T
P625A	642 300 000		6	39	200		25	2.3	100			B4	T
P2020N	642 310 000	G ₂	20	18	200	200	20	1.7	100	100	1.7	B5	P
PC03/3A	023 014 500	A ₁	2		300	125		1.4	100	100		8SC	P
PC03/3B	023 014 500	A ₁	4		300	125		1.4	100	100		8SC	P
PC86	641 234 146		3.8	1.5	175		12	14	No Data Available			B9A	T
PC88	414 234 464		4	1.25	150		12.5	14	No Data Available			B9A	T
PC92	602 304 100		3.15	2	250		10	5	100		5	B7G	T
PC95	142 360 100		3.6	1.2	200		10	10.5	No Data Available			B7G	T
PCC89	147 234 116		7.2	1.2	90		15	12	No Data Available			B9A	TT
PCC189	641 237 410		7	1.2	90		15	12.5	No Data Available			B9A	TT
PCF84	414 237 516		9	2	100		14	2.5	100	60	3	B9A	TP
					175	175	8	2.5	100	100	2.2		
PCF86	141 234 675		8	3	100		14	6	100	60		B9A	TP
				1.2	175	150	10	12	No Data Available				
PCL85	641 237 514		18	0.8	100		5	6.5	100	60	6.5	B9A	TP
				15	175	175	41	7.5	100	100			
PCL86	415 237 146		14.5	1.7	250		1.2	1.6	100	60	2	B9A	TP
				5.7	250	250	39	10.5	No Data Available				
Pen45AN	216 540 310		4	8.4	250	250	40	8.8	100	PenLF	8	M08	P
PF83	501 236 014		4.5	2	60	50	1.9		No Data Available			B9A	P
PF86	501 236 014		4.5	2	250	150	3	2	100	100		B9A	P
PL136	521 441 350	A ₁	35	12	100	100	90	19	No Data Available			A08	P
PL183	541 231 640		12.6	2.1	150	225	40	25	No Data Available			B9A	P
PLL80	546 234 175		12.6		250	250	24		No Data Available			B9A	PP
PTT120P	641 237 410		18	1.5	225		10	5.5	100			B8D	TT
PTT122P	641 237 410		18	2	250		10	5.5	100		5	B8D	TT
PTT141	602 441 443		6.3	1.2	150		22	25	No Data Available			B9A	T
PTT202	412 356 010		18	2.2	200	200	8	5.5	100	100		B8D	P
PTT202S	412 356 010		18	2.2	200	200	8	5.5	100	100		B8D	P
PTT203	026 510 310	G ₁	18	5	200	200	35	8.5	No Data Available			A08	P
PTT208P	412 356 110		18	4.5	200	200	18	6	100	100		B8D	P
PTT212P	412 356 010		18	1.6	200	200	10.5	8.5	No Data Available			B8D	P
PTT213P	412 356 010		6.3	1.6	200	200	10.5	8.5	No Data Available			B8D	P
PTT214P	412 365 110		6.3	1.75	150	150	12.5	13.5	No Data Available			B8D	P

VALVE	SELECTOR SWITCH No.	T.C.	V _f	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	I _a mA	mA/V	Anode Volts	Screen Volts	mA/V		
PTT216	402 106 053		6.3	1.75	150	150	12.5	13.5	No Data Available			B8D	P
PTT217	123 141 516		6.3	1.6	150	150	12.5	16	No Data Available			B9A	P
PTT241P	412 356 *00		6.3	2.9	225	225	34	12.5	No Data Available			B8D	P
PTT243P	421 356 130		6.3	1.5	150	150	26	28	No Data Available			B8D	P
PTT244P	615 141 230		18	1.5	150	150	26	27	No Data Available			B8D	P
PTT301A	601 143 210		20	1.8	75	75	2	3.2	80	75	3.2	B8D	P
PY88	*** 232 228	C ₁	26				120		REC		40mA	B9A	R
QQE02-5	414 226 573		6.3	50	250	250	45	10.5	No Data Available			B9A	PP
QQE03-12	414 226 573		6.3	15	200	200	30	3.3	No Data Available			B9A	PP
QQV02-6	414 226 573		6.3		150	150	25	10.5	No Data Available			B9A	PP
QQV03-20	245 134 200	A ₁ A ₂	6.3	17	300	200	20	2.5	No Data Available			B7A	PP
QQV03-20A	245 134 200	A ₁ A ₂	6.3		300	200	20	2.5	No Data Available			B7A	PP
QQV04-15	245 134 200	A ₁ A ₂	6.3	27	400	250	30	3	No Data Available			B7A	PP
QQV06-40A	245 134 200	A ₁ A ₂	6.3		400	250	30	3.4	No Data Available			B7A	PP
QQV07-40	245 134 200	A ₁ A ₂	6.3		300	250	25	1.9	No Data Available			B7A	PP
QV04-15	245 134 200	A ₁ A ₂	6.3	60	400	250	90		No Data Available			B7A	PP
R116	026 540 310	G ₁	10	2.2	200	200	8		100	100		A08	P
R120	026 040 310		6.3		250		60	6.4	No Data Available			A08	T
R122N	026 510 310	G ₁	18		200	200	8	5.5	100	100		A08	P
R123	026 500 310	G ₁	18		200	200	35	8.5	100	100		A08	P
R125C	026 890 310	G ₁	18	5.5	250		5	2.5	100		3	A08	DDT
R125N	026 890 310	G ₁	18		250		5	2.5	100			A08	DDT
R126N	026 510 310	G ₁	18		200	200	6	1.7	100	100		A08	P
R128	028 190 310		18						D			A08	DD
R134	026 541 310		18		200	200	18	6	100	100		A08	P
R142	412 360 100		6.3		200	200	10.5	8.5	100	100		B7G	P
R143	412 360 100		6.3		200	200	8	5.5	100	100		B7G	P
R144	412 361 500		6.3	2	250	250	10	7.6	100	100		B7G	P
R145	412 360 100		18		200	200	8	5.5	100	100		B7G	P
R147	412 356 110		18		200	200	18	6	100	100		B8D	P
R148	641 237 410		18		225		10	5.5	100		5.5	B8D	TT
R150	123 141 516		6.3	1.6	150	150	12.5	16	No Data Available			B9A	P
R265	412 360 510		6.3		100	100	7.5	5	100	100	5	B8D	P
R271	412 163 510		6.3	2	125	125	5.2	3.2	100	100		B8D	P
R290	020 080 030		1.25				5		D			A08	D
R5559	6*2 1*1 413		6.3	1.5	150		25	25	No Data Available			B9A	T
RC5B	023 008 060	G ₁	12.6	0	100		24	6	100		6	8SC	DT
RC5C	023 008 060	G ₁	2.4	0	100		24	6	100		6	8SC	DT
RE122	264 300 000		2	4.5	150		3	1.3	100		3	UX4	T
RE122	642 300 000		2	19	150		7	1.2	100		1.2	B4	T
RE124	642 300 000		4	18	150		11	1.6	100		1.6	B4	T
RE402B	064 234 700		2	0	125		3		100			B7	TT
RE052	642 300 000		2	3	150		1	1	100		1	B4	T
RE054	642 300 000		4	4	125		4	1.3	100		1.3	B4	T
RE062	642 300 000		2	9	150		4	1	100		1	B4	T

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
RE074D	642 300 000		4	3	150		3.5	0.5	150		0.5	B5	T
RE076	642 300 000		6	9	150		4	1.5	100		1.4	B4	T
REN1104	642 310 000		4	16	200		12	1.3	100		1.3	B5	T
REN1822	642 310 000		20	18	200		15	1.6	100		1.6	B5	T
RENS1224	164 552 300	G ₁	4	1.5	200	125	3	0.58	100	100		C7	P
RENS1234	165 452 300	G ₁	4	2	200	75	3	1.8	100	75	1.8	C7	P
RENS1384	642 310 000	G ₁	4	22	250	250	36	2.8	100	PenLF	2.9	B5	P
RES105	642 300 000	G ₁	5	15	200	150	12	1.3	150	100	1.3	B4	P
RES212	642 350 000		2	4.4	150	125	6	2.2	150	100	2.2	B5	P
RES664D	642 350 000		4	40	400	200	30	1.9	100	100	1.9	B5	P
RGNI404	082 300 000		4				120		REC		20mA	B4	R
RGN4004	892 300 000		4				120		REC		20mA	B4	RR
RL15A	510 423 206		2.4	20	350	200	57		No Data Available			B9A	P
RTR4141	026 510 310	G ₁	5.2	3	250	100	2.5	1.2	100	100		A08	P
RTR4142	026 510 310	G ₁	5.2	8	125	125	15	2.7	100	100		A08	P
S6F12	412 361 500		6	2	250	250	10	7.5	100	100		B7G	P
S6F17	412 361 500		6	6.25	250	250	64	8.3	100	100		B7G	P
SIIE12	*26 541 310		6.3	60	400	300	100	6.3	No Data Available			A08	P
S217	041 230 500	A ₁	2	0.5	150	150	2.5	1.7	150	150	1.7	B7	P
S410N	542 310 000	A ₁	4	2	200	60	4	1	100	60	1	B5	P
S412N	542 310 000	A ₁	4	1.3	200	100	1.5	1	100	100	1	B5	P
S423	023 110 560	G ₁	4	3	250	100	8	1.8	250	100	1.9	8SC	P
S424	023 110 560	G ₁	4	2	250	100	3	2.1	250	100	2.1	8SC	P
S434N	542 310 000	A ₁	4	2	200	100	4.5	2.3	100	100	2.3	B5	P
S434N	041 231 500	A ₁	4	1.5	200	100	4.5	2	100	90	2	B7	P
S435N	041 231 500	A ₁	4	2	200	100	3	2.3	200	100	2.3	B7	P
S2010N	542 310 000	A ₁	20	2	200	60	4	1	100	60	1	B5	P
S2012N	542 310 000	A ₁	20	2	200	60	4	1	150	60	1	B5	P
S2030N	542 310 000	A ₁	20	2	200	100	3	2	150	100	2	B5	P
SN956B	023 990 000		1.25						D			B3G	D
SP514	402 106 053		6.3	1.7	150	150	12.3	13.5	No Data Available			B9A	P
ST507	602 441 443		6.3	1.2	150		23	25	No Data Available			B9A	T
SU42	030 000 020	D ₁	4						D			A08	R
T2	642 300 000		2	1	100			1	100		1	B4	T
T223	023 004 060		2	2.8	125		3	2.5	100		2.5	8SC	T
T460	023 004 060		4	45	250		60	6	100		6	8SC	T
TD2	642 300 000		2	7	150		4	0.9	100		0.9	B4	T
TDD13	023 189 060	G ₁	13	1	100			2.9	100		2.9	8SC	DDT
TD05-12	*21 010 310	A ₁ G ₁	6		150		10	4	100			A08	T
TH401	174 652 300	G ₂	4	{ 2 2	150 75	75	11 2.5	2	100 80	60 75	2 }	C7	TH

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
TH2620	645 231 700	G ₁	26	{ 1 1	100 250	100		5.3 3.9	100 250	60 100	5.3 3.8	B7	TH
TT2	222 833 390		4.4						D			A08	DD
TT210	023 074 460		2	0	125		1.5		80			8SC	TT
TY86F	23* 232 *32	D ₁	7.5						D			B9A	R
TZ40	204 300 000	A ₁	7.5	1	100			0.4	100		0.4	UX4	T
U45	230 000 000	D ₁	6						D			B3G	R
U47	230 000 000	D ₁	2						D			B3G	R
U49	230 232 032	D ₁	2						D			B9A	D
U118	280 *** 130		40				60		REC		25mA	B8A	R
U119	**1 23* **8		38				120		REC		30mA	B9A	R
U192	**1 23* **8		19				120		REC		30mA	B9A	R
U193	*** 23* **8	C ₁	19				120		REC		40mA	B9A	R
U291	028 08* 310		29				180		REC		40mA	A08	R
U339	0** 080 230		19				120		REC		35mA	A08	R
U381	**1 23* **8		38				120		REC		30mA	B9A	R
U718	29* **8 130		6.3				60		REC		25mA	B8A	RR
UA55	625 414 537		55	6	90	90	36	7	80	90		B9A	PP
UC95	142 360 100		10.8	1.2	200		10	10.5	100			B7G	T
UCC88	641 237 410		21	1.2	90		15	12.5	No Data Available			B9A	TT
UCC189	641 237 410		21	1.2	90		15	12.5	No Data Available			B9A	TT
UCH80	541 23* 764		14.5	{ 2 1.7 2.1	75 250 200	85	5.1 3 3		75 100 100	60 80 60		B9A	TP
UCL84	461 237 145		45	2.1	175	175	18	4	100	100	4	B9A	TP
UF81	541 236 000		12.6	2.5	250	125	6	2.2	100	100		B9A	P
UF86	501 236 014		12.6	2	200	150	3	1.8	100	100	1.8	B9A	P
ULL80	546 234 175		25		250	250	24		100	100		B9A	PP
UPI3	040 231 500	A ₁	13	1	200	100		3	200	100	3	B7	P
UY89	1*1 23* **8		31				60		REC		20mA	B9A	R
VO133	023 164 570	G ₁	13	{ 1 1	100 200	75	1	1.2 1.7	100 200	60 80	1.2 1.7	B7	TH
VPU1	060 231 500	G ₁	13	1	250	200		3.5	100	100		B7	P
W25	265 *24 300		1.4		90	60	1.65	0.8	90	60		B7G	P
W118	260 154 130		13	2.5	175	100	7	2.3	100	100	2.5	B8A	P
W119	141 230 651		13	1.3	175	100	13	4.4	100	100	4.4	B9A	P
W739	141 230 651		6.3	1.3	175	100	12	4.4	100	100	4	B9A	P
WD2	642 300 000		2	2.5	150		1	1	100		1.2	B4	T
WD119	541 236 891		19	1.5	200	100	11	4.5	100	100	4.5	B9A	DDP
WE33	023 110 560		4	3	100	250	8	1.9	100	100		8SC	P
WE35	023 004 560		4	15	250	250	15	2.8	100	100		8SC	P
WE37	023 189 060	G ₁	4	7	250		4	2	100		2	8SC	DDT
WE38	023 104 560		4	6	250	250	36	9	100	100		8SC	P
WE39	023 100 060	G ₁	4	5.5	250		6	2.5	100			8SC	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Anode Volts	Screen Volts	mA/V		
WE53	023 080 090		4				60		REC		25mA	8SC	RR
WE54	023 080 090		4				30		REC		12mA	8SC	RR
WHTS	745 231 600	G ₁	13	{ 1 1	150 250	75		0.6 1.5	150 250	60 75	0.6 1.4	B7	TH
X20	265 451 300		1.4		90	30			No Data Available			B7G	H
X118	276 454 130		28	{ 2.5	100 175	100	5 3	4 2.5	100 100	60 100	3.5 2.5	B8A	TH
X119	541 237 164		19	{ 1 2.2	100 175	100	13.5 2.3	3.7 2.3	100 100	60 100	3.5 2	B9A	TP
XFR5	652 430 000		1.25		60	60	1.8	1.1	No Data Available			B5A	P
XFW20	652 430 000		0.625		20	20			No Data Available			B5A	P
XFY15	653 420 000		1.25	6.5	60	60	3	0.6	No Data Available			B5A	P
XFY53M	653 420 000		1.25	3	20	20	0.45	0.34	No Data Available			B5A	P
XFY54	653 420 000		1.25	2	20	20	0.3	0.28	No Data Available			B5A	P
XHPI-5	264 730 000	G ₁	1.5	{ 0 4.5	40 40		0.5 1.7	0.5 0.72	No Data Available			SM5	TT
XR4	206 035 240		1.25	7.5	125	125	7	1.9	100	100		B8D	P
XR6	412 163 510		6.3	1.4	100	100	7	5	100	100	5	B8D	P
XR7	412 653 160		6.3	2	100	100	7.5	5.5	100	100	5.5	B8D	P
XR8	462 603 160		6.3	2.5	100		8	4.2	100		4.2	B8D	T
XR9	742 113 460		6.3	1.85	100		8.5	5	100		5	B8B	TT
XW075B	653 420 000		0.625		30	30	0.2	0.18	No Data Available			B5A	P
XY1-4A	653 420 000		1.4	4.5	40	40	1.8	0.5	No Data Available			B5A	P
XY1-4B	653 420 000		1.25	4.5	40	40	1.6	0.6	No Data Available			B5A	P
XY1-4C	653 420 000		1.25	1.5	40	40	0.5	0.5	No Data Available			B5A	P
YD2	642 300 000		2	4.5	150		6	3	100		2	B4	T
Z329	141 230 651		7.3	1.9	175	175	10	8.8	100	100		B9A	P
Z749	141 230 651		6.3	1.9	175	175	10	9.2	No Data Available			B9A	P
ZD2	642 300 000		2	12	150		7	1	100		1.2	B4	T
ZD25	2*8 564 300		1.4	1.5	60	60	0.17	0.17	No Data Available			B7G	DP

APPENDIX I.

TEST DATA FOR TUNING INDICATORS

Tuning indicators are tested with the controls set according to the figures given in the table below; using the screen switch for obtaining the target voltage and inserting the anode load, as shown in column marked "Ra" by means of the link on the panel of the instrument. At the approximate bias given in the table the triode section should be at cut-off and the "eye" fully closed. On reducing the grid bias to zero the "eye" should open fully and the anode current should be approximately that given in the table. In the case of double sensitivity indicators giving multiple images corresponding to the different sensitivities, two sets of data (wherever possible) are given, the first set relating to the sensitive indication.

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA FOR TUNING INDICATORS					BASE
				Neg. Grid Volts	Anode Volts	Target Volts	Ia mA	Ra MΩ	
1M1	4*0 230 060		1.4	34	250	0	0.09	2.2	B8D
1M3	4*0 230 060		1.4	23	175	0	0.1	1	B8D
2E5	264 513 000		2.5	8	250	250	0.24	1	A08
2G5	264 513 000		2.5	22	250	250	0.24		UX6
6AB5	264 513 000		6	15.5	150	150	0.13	1	UX6
6AD6	026 540 310		6	{ 3 50	{ 150 150	150		}	A08
6AF6	026 540 310		6	81	125	125			A08
6AF7	026 457 310		6	{ 4.5 15	{ 200 200	200	0.16 0.15	{ 1 1	A08
6BR5	41* 23* 6*5		6	14	200	200	0.4	0.5	B9A
6CD7	026 546 310		6	{ 4.2 12.5	{ 250 250	250	1.0	{ 1 1	A08
6E5	264 513 000		6	7.5	250	250	0.2	1	UX6
6G5	264 513 000		6	22	250	250	0.24	1	UX6
6H5	264 513 000		6	22	250	250	0.24	1	UX6
6M1	026 540 310		6	22.5	250	250	0.23	1	A08
6M2	*25 456 310		6	{ 4.0 2.0	{ 250 250	250	0.12 0.25	{ 0.2 0.1	A08
6N5	264 513 000		6	15.3	150	150	0.13	1	UX6
6T5	264 513 000		6	22	250	250		1	UX6
6U5/6G5	264 513 000		6	22	250	250	0.24	1	UX6
6X6	025 540 310		5		250	250			A08
10M1	026 540 310		18	19	175	175	0.16	1	A08
10M2	2*6 456 130		12.6	{ 3.0 20	{ 200 200	200	0.1 0.19	{ 0.2 0.1	A08
12U5	264 513 000		12.6	22	250	250	0.24	1	UX6
41ME	023 104 560		4	5	250	250		1	8SC
63ME	026 540 310		6	22	250	250	0.25	1	A08
64ME	026 457 310		6	{ 16 2.5	{ 250 250	250		{ 1 1	A08
65ME	41* 23* 6*5		6		250	250			B9A
1629	026 540 310		12.5	8	250	250	0.24	1	A08
4678	023 104 560		6	5	250	250	0.095	2	8SC
AC/ME	045 231 600		4	22	250	250	0.24	1	B7
AM1	023 104 560		4	5	250	250	0.095	2	8SC
DM21	026 540 030		1.4		90	90	0.025	2	A08
DM70	4*0 230 060		1.4	23	175	0	0.1	1	B8D

VALVE	SELECTOR SWITCH No.	T.C.	Vf	VALVE CHARACTERISTIC METER DATA FOR TUNING INDICATORS					BASE
				Neg. Grid Volts	Anode Volts	Target Volts	Ia mA	Ra MΩ	
DM71	4*0 230 060		1.4	23	175	0	0.1	1	B8D
E130	026 540 310		6	15	250	250		1	A08
E1320	026 540 310		6	11	250	250	4	1	A08
EM1	023 104 560		6	5	250	250	0.095	2	8SC
EM3	023 104 560		6	18	200	200	0.176	1	8SC
EM4	023 164 560		6	{ 4.2 12.5	200 200	200 200		{ 1 1	8SC
EM11	026 546 310		6	{ 5 16	250 250	250 250		{ 1 1	A08
EM31	026 540 310		6	5	250	250		2	A08
EM34	026 456 310		6	{ 4.2 12.5	250 250	250 250	1.0	{ 1 1	A08
EM35	026 540 310		6	22	250	250		1	A08
EM71	251 064 130		6	20	250	250	0.5		B8B
EM80	41* 23* 6*5		6	14	250	250	0.37	0.5	B9A
EM81	41* 23* 6*5		6	10.5	250	250	0.37	0.5	B9A
EM84	4*1 235 6*6		6	22	250	250	0.45	0.47	B9A
EM85	401 235 606		6	14	250	250		0.47	B9A
EM840	4*1 235 6*6		6	22	250	250	0.45	0.47	B9A
FT4	026 540 310		4	6	250	250		1	A08
ME4S	023 104 560		4	5	250	250		2	8SC
ME6S	023 104 560		6	5	250	250		2	8SC
ME41	216 040 530		4	22.5	250	250	0.23	1	M08
ME91	216 040 530		9	17	150	150	0.135	1	M08
ME920	045 231 600		9	19	175	175	0.18		B7
PM5	206 546 130		6	{ 15 5	200 200	200 200		{ 1 1	A08
PM84	4*1 235 6*6		4.2	22	250	250	0.45	0.47	B9A
TV4	023 140 560		4	5	250	250		1	8SC
TK406	023 104 560		4	5.0	250	250	0.095	2	8SC
UM4	206 546 130		12.6	{ 4.2 12.5	200 200	200 200		{ 1 1	A08
UM11	206 546 130		15	{ 4.2 12.5	200 200	200 200		{ 1 1	A08
UM34	026 456 310		12.5	{ 4.2 12.5	250 250	250 250	1	{ 1 1	A08
UM80	41* 23* 6*5		19	14	200	200	0.35	0.5	B9A
UM81	41* 23* 6*5		19	14	200	200	0.4	0.5	B9A
UM84	4*1 235 6*6		12.6	22	250	250	0.45	0.47	B9A
VFT4	026 540 310		4	20	250	250		1	A08
VTF6	026 540 310		6	22	200	200	0.24	1	A08
VME4	045 231 600		4	22	250	250		1	B7
Y25	4*0 320 060		1.4	34	250		0.09	2.2	B8A
Y61	026 540 310		6	22	250	250	0.24	1	A08
Y62	026 540 310		6	22	250	250		1	A08
Y63	026 540 310		6	22	250	250	0.24	1	A08
Y64	026 540 310		6	22	250	250		1	A08
Y65	026 540 310		6	11	250	250		1	A08
119	41* 23* 6*5		19	14	200	200	0.35	0.5	B9A

APPENDIX II.

Test Data for High Voltage Rectifiers.

The following procedure should be adopted when testing high voltage rectifiers.

Make insulation checks with valve cold and hot as stated in paragraphs 1 and 2 of the Abbreviated Working Instructions.

Then set Anode and Screen Voltage switches to their minimum value (i.e. 20) and Anode Current Controls to figure shown in Data column. With Circuit Selector set to TEST and Anode Selector at A₁ increase Anode Volts setting until indicating meter reads in a forward direction.

The setting of the Anode Voltage switch for a good valve should not exceed the figure given in column headed Anode Volts.

When checking full wave or voltage doubler rectifiers, check second Anode with Anode Selector at A₂.

NOTE the valve should be heated to working temperature before setting Circuit Selector to position TEST and only left at this position for sufficient time to take a reading.

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Anode Volts (Max.)	Ia mA (Min.)	Valve Holder	Type	REMARKS
1B3	020 000 300	A1	1-25	200	6	A08	R	
1Z2	232 232 300	A1	1-4			B7G	R	
2V3	020 000 300	A1	2-5 (3)			A08	R	
2V3G	020 000 300	A1	2-5 (3)			A08	R	
2X2	200 300 000	A1	2-5 (3)	100	10	UX4	R	
2Y2	200 300 000	A1	2-5	100	10	UX4	R	
3B24	320 200 000	A1	2-5	60	10	UX4	R	
6W2	230 000 000	A1	6	100	9	Nil	R	
225DU	072 323 600		2	40	20	B7	RR	Test A ₁ & A ₂
405BU	672 300 000		4	40	20	B4	RR	Test A ₁ & A ₂
732A	320 200 000	A1	2-5	60	10	UX4	R	
879	200 300 000	A1	2-5	100	10	UX4	R	
1876	123 000 700		4			8SC	R	
1877	002 300 000	A1	4	100	10	B4	R	
8016	020 000 300	A1	1-25	200	6	A08	R	
CE230	320 200 000	A1	2-5	60	10	UX4	R	
EY51	230 000 000	A1	6	100	9	Nil	R	
HVR2	002 300 000	A1	4	100	10	B4	R	
HVR2A	002 300 000	A1	2 (2-5)	100	10	B4	R	
R12	230 000 000	A1	6-3	100	9	Nil	R	
SU61	230 000 000	A1	6-3	100	9	Nil	R	
SU2150	002 300 000	A1	2 (2-5)	60	4	B4	R	
SU2150A	002 300 000	A1	2	200	50	B4	R	
U17	002 300 000	A1	4	40	35	B4	R	
U19	002 300 000	A1	4 (5)	40	70	B4	R	
U21	002 300 000	A1	2	60	4	B4	R	
U22	200 000 030	A1	2 (3)	60	4	M08	R	
U23	002 300 000	A ₁	4 (5)	40	100	B4	R	
U24	020 000 300	A1	2	20	0-5	A08	R	
U41	020 300 000	A1	1-25	200	6	A08	R	
U43	230 000 000	A1	6-3	100	9	Nil	R	
U151	230 000 000	A1	6-3	100	9	Nil	R	
V21/7000	002 300 000	A1	4	100	10	B4	R	
V960	002 300 000	A1	4	80	90	B4	R	
V1906	002 300 000	A1	4 (5)	60	100	B4	R	
V1907	002 300 000	A1	4	150	70	B4	R	
V1913	002 300 000	A1	4 (5)	40	100	B4	R	
V1920	002 300 000	A1	4 (5)	100	90	B4	R	
VL51	002 300 000	A1	4	100	10	B4	R	
CV317	322 322 222	A ₁	4	60	80	B9G	R	
CV121	002 300 000	A ₁	4 (5)	100	90	B4	R	

APPENDIX III.

Test Data for 'Service' Type Valves

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Base	Type	REMARKS	Civ. Equiv.
CV16	234 000 000	A ₁	4	1	250		6	4.2	Disc seal	T	min slope	
CV53	234 000 000	A ₁	4	1	250		6	4.2	Disc seal	T	See Note A min slope See Note A	
CV82	234 000 000	A ₁	4	3	250		20	3.7	Disc seal	T	See Note A min slope	3A/141J
CV88	See Note C		6	0	250		4	5	Disc seal	T	See Note C	3A/148J
CV93	See Note C		1.4	0	20			0.7	Disc seal	T	See Note C	V625
CV105	020 000 030	D ₁	6				30		A08	R		
CV122	632 400 000		1.4	0	100			0.8	Special	T	See Note D	
CV132	412 361 500		6	1.8	250	100	6.3	2	B7G	H		
CV201	021 540 300	A ₁	(2.5)	10	250	150	25	3.3	A08	P		
CV229	623 400 000		1.4	0	100			0.8	Special	T	See Note D	
CV243	042 350 000		(5)	40	75	75	45	1.5	B5	P		4045A
CV273	346 000 000	H—	6	4	250		28	8.5	Disc seal	T		DET22
CV354	346 000 000	H—	6	2	250		10	6.5	Disc seal	T		
CV384	642 300 000		(5)	30	400		62	7.5	B4	T		DET5
CV1155	642 300 000		4	0	75		0.7	0.2	B4	T		
CV1223	642 300 000		(5)	30	400		62	7.5	B4	T		DET5
CV1508	002 300 000	A ₁	(5)	40	100				B4	R		
CV1584	642 310 000		4	3.5	200		5.4	3.1	B5	T		
CV2000	412 361 500		6	{ 2 2	250 200	250 150	10 4	7.5 6.4	B8D	P	See Notes J & E	
CV2001	412 361 500		6		250 200	250 150	10 4	7.5 6.4		P	See Notes J & E	
CV2002	412 360 500		6	13.5	250	250	16	2.6	Spec	P	See Note-J	
CV2003	412 360 500		6	13.5	250	250	16	2.6	Spec	P	See Note J	
CV2004	192 310 800		6				5		Spec	RR	See Note J	
CV2005	192 310 800		6				5		Spec	RR	See Note J	
CV2007	741 226 413		6	8.5	250		10.5	2.2	Spec	TT	See Note J	
CV2008	412 300 600		6	2.2	150		10	8	Spec	TT	See Note J	
CV2009	412 314 600		6	1.5	250		10	8.5	Spec	T	See Note J	

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg. Grid Volts	Anode Volts	Screen Volts	la mA	mA/V	Base	Type	REMARKS	Civ. Equiv.
CV2010	762 344 100		6	1	100		8.5	5.6	Spec	TT	See Note J	
CV2101	741 226 413		6	2	250		1.2	1.6	Spec	TT	See Note J	
CV2013	041 230 651		6	4.5	250	250	40	11	Spec	P	See Note J	
CV2014	601 235 144		6	7.5	250	250	45	7	Spec	P	See Note J	
CV2015	256 101 403		6	7	250	250	10	6	B9G	P	See Note J	
CV2016	741 226 413		6	2	250		10.5	5.5	Spec	TT	See Note J	
CV2017	412 361 500		6	4	200	200	5.8	3.5	Spec	P	See Note J	
CV2020	412 365 100		6	2	150	125	7.5	5	Spec	P	See Note J	
CV2021	902 308 100		6				30		Spec	R	See Note J	
CV2022	441 230 561		6	12.5	250	250	45	4.1	Spec	P	See Note J	
CV2023	412 361 500		6	2.5	250	200	8	2.5	Spec	P	See Note J	
CV2024	412 366 100		6	2	100		11	7	Spec	H	See Note J	
CV2025	412 361 500		6	2	250	250	10	7.5	Spec	P	See Note J	
CV2101	040 230 650		1.25	0	200	150	4	6.4				
				75	75		2	1	B8D	P	See Note J	
CV2156	241 7 143		20	14	250	150	30	3.9	B9G	PP		
CV2204	346 000 000	H—	6	1	250		20	3	Disc seal	T	min slope	DET22
CV2207	346 000 000	H—	6	1	250		20	3	Disc seal	T	min slope	
CV2231	*41 23* *51	A ₁	6	12.5	150	150	50	8.5	B9A	P		
CV2243	041 230 651		6	2	200	125	17	8.4	B9A	P		
CV2267	Not known		6				30		Spec	RR	See Note C	
CV2268	Not known		6	2	250	250	10	7.5	Spec	P	See Note C	
CV2277	*41 23* 651		26.5	13	100	100	90	9.5	B9A	P		
CV2838	Not known	A ₁ G ₁	2		60			0.3	Special	T	See Note C	
CV4036	001 230 000	D ₁	6				120		B9A(F)	R		
CV4046	241 756 143		6	14	250	125	30	3.9	B9G	PP		
VU508	002 300 000	A ₁	(5)		40		100		B4	R		

NOTES REFERRED TO IN THE REMARKS COLUMN.

- A The heater/cathode lead identified with red marking should be connected to Pin No. 1.
- B The grid top cap is situated over Pins No. 7 and 8.
- C This valve does not fit special valve holders supplied, and roller selector Data will depend on connections made to valve electrodes.
- D Pin No. 1 on the flat pinch type of base is the lead adjacent to the coloured blob the remaining pins being directly numbered across the base from Pin No. 1.
- E Alternative test figures are given for use when value shows signs of back emission from anode to G₃. This phenomenon can be recognised by the anode current apparently decreasing as the valve heats.
- G Valves on the B8D base when leads are cut, should be tested either by insertion in a B8D Adaptor, or leads lengthened and tested in the same way as those with flexible leads, by using the special 9 clip valve holder.
- H Tests on tuning indicators should not be made until the resistor value (Ra), indicated in the remarks column, has been inserted across the link(s) on valve panel.
- J Use special 9 clip valve holder.

APPENDIX IV.

Test Data for Russian Valves

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE I60					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
1K1Π	265 024 300		1-2	0.5	60	40	1.7	·65	No Data Available			B7G	P
1B1Π	208 564 300		1-2	0	60	40	1.0	·25	No Data Available			B7G	DP
2Π1Π	264 536 200		1-2	3.5	60	60	2.8	0.9	No Data Available			B7G	P
6B2Π	452 368 100		6-3	1.5	250	100	6.5	2.0	100	100	2	B7G	DP
6K1Π	412 365 100		6-3	3	250	100	6.7	1.85	100	100	1.9	B7G	P
6K4Π	412 365 100		6-3	1.0	250	100	11	4.4	100	100	4.4	B7G	P
6Ж2Π	412 365 100		6-3	2.2	125	125	7.5	5.2	100	100		B7G	P
6Ж1Π	412 365 100		6-3	2.2	125	125	5.5	3.55	100	100		B7G	P
6Ж3Π	412 365 100		6-3	2	250	150	7	5	100	100		B7G	P
6Ж4Π	412 365 100		6-3	1	250	100	11	4.4	100	100	4	B7G	P
6Ж5A	412 365 100		6-3	2.0	250	100	10	9	100	100		B7G	P
Г837	205 411 300	A ₁	12.6	85	400		60	3.5	No Data Available			B7G	P
6C1Π	612 364 100		6-3	7	250		6.3	2.2	100		2.2	B7G	T
6C2Π	412 344 600		6-3	1.0	100		10	11	No Data Available			B7G	T
6H15Π	672 344 100		6-3	2	100		8.5	5.6	100		5.6	B7G	TT
6H1Π	641 237 410		6-3	4.8	250		8	4.3	100		8	B9A	T
6H2Π	641 227 413		6-3	1.5	250		2.3	2	100		2	B9A	T
6X2Π	182 310 900		6-3				5		D			B7G	RR
6Π4Π	802 310 900		6-3				30		REC		15	B7G	RR
6Π2Π	412 365 100		6-3	5.5	125	125	35	8	100	100	6	B7G	P
6Π1Π	651 236 415		6-3	12.5	250	250	45	4.5	100	PenLF	4	B9A	P

STOP PRESS

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
5MK9	002 380 000		5				60		REC		15mA	B7G	R
6AR8	115 324 166		6.3	3	250	250	10	4	100	100		B9A	P
6AY3	*8* 23* 8*1		6.3				180		REC		35mA	B9A	R
6BH3	*8* 23* 8*1		6.3				180		REC		35mA	B9A	R
6DM4	0*1 080 230		6.3				180		REC		35mA	A08	R
6EA8	645 237 114		6.3	{ 1	150		18	8.5	100	60	6	B9A	TP
				{ 1	125	125	12	6.4	100	100			
				{ 17.5	150		45	7.5	100				
6EW7	744 236 411		6.3	{ 11	250		5.5	2	100			B9A	TT
				{ 20	150		50	7.2	100				
				{ 3	250		1.4	1.6	100				
6EM7	471 461 230		6.3									B9A	TT
6F25	141 230 651		6.3		175	90	11.5	12.5	No data available					B9A	P
6F28	*41 231 650		6.3		175	175	10	12.5	No data available			B9A	P
6FG7	461 237 514		6.3	{ 1	125		13	7.5	100	60	7	B9A	TP
				{ 1	125	125	11	6	100	100	6		
				{ 1	100		7.9	5.5	100	60	5		
6FH8	146 234 517		6.3	{ 2	250	250	7.3	4.4	100	100		B9A	TP
6FQ7	741 236 410		6.3	{ 8	250		9	2.6	100				
6FW5	421 060 350		6.3	22.5	250	150	75	6.6	No data available					A08	P
6GK5	142 360 100		6.3	1	125		11.5	15	No data available			B7G	T
6GN8	146 231 457		6.3	{ 2	250		2	2.7	100	60	3	B9A	TP
				{ 3	200	150	25	11.5	100	100			
				{ 12	150	100	3.7	3.7	100	100			
6GY6	412 365 100		6.3	0.9	125		4.5	4.5	100		4	B7G	P
6GY8	414 236 117		6.3		100		2	1.0	100		1.0	B9A	TT
6HS8	157 231 461		6.3	12.5	200	200	45	7.4	100	100		B9A	PP
6RB11	504 234 106		6.3									B9A	P
8B8	414 237 516		8	{ 1	100		1	1.9	100	60	1.9	B9A	TP
				{ 16	200	200	35	6.4	100	100			
				{ 8	250		9	2.6	100				
8FQ7	741 236 410		8.4									B9A	TT
				{ 2	250		2	2.7	100	60	3		
				{ 3	200	150	25	11.5	100	100			
8GN8	146 231 457		8									B9A	TP
9BR7	641 229 813		4.7	2	250		10	4	100				
9RA6	140 230 406		9.5	12	250		26	8.5	100				
10EM7	461 471 230		9.7	{ 20	150		50	7.2	100			B9A	TT
				{ 3	250		1.4	1.6	100				
12AY3	*8* 23* 8*1		12.6				180		REC		35mA	B9A	R
12DM4	0*1 080 230		12.6				180		REC		35mA	A08	R
12EA6A	412 398 600		12.6	1.0	12.6		0.1	0.5	No data available			B7G	DDT
12DT8	741 236 410		12.6	2.5	250		10	5.5	100		4	B9A	TT
12EM6	415 236 **8		12.6		12.6	12.6	6	5	No data available			B9A	DP
12FM6	412 398 600		12.6		12.6		1.0	1.3	No data available			B7G	DDT
12FQ8	747 236 461		12.6	1.0	200		3	1.5	100		1.5	B9A	TT
12FR8	414 325 786		12.6	{ -6	12.6		1.0	1.2	No data available			B9A	DTP
				{ -8	12.6	12.6	1.9	2.7					
					12.6		1.3	1.4					
12FX8	747 324 161		12.6		12.6		4.4	3.6	No data available			B9A	TH

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
12FX8A	747 324 161	A ₁	12.6	{	12.6		1.3	1.4	No data available			B9A	TH
12GA6	412 366 100		12.6		12.6		4.4	3.6				B7G	O
12GC6	021 540 350		12.6	22.5	250	150	75	6.6	No data available			A08	P
13EM7	471 461 230		13	{	20		50	7.2				B9A	TT
14GT8	181 239 146		14	3	250		1.4	1.6				B9A	DDT
							.7	1.0	100				
15EA7	461 471 230	A ₁	14.8	25	175		48	6.5	No data available			A08	TT
15EW6	412 365 100		15	.8	125	125	11	14				B7G	P
17AY3	*8* 23* 8*1		16.8				180		REC	35mA		B9A	R
17BH3	*8* 23* 8*1		17				180		REC	35mA		B9A	R
17DM4	0*1 080 230		16.8				180		REC	35mA		A08	R
18DG6A	412 365 100	A ₁	18	1.0	100	100	5	4.3	100	100	4.3	B7G	P
18FW6A	412 365 100		18	1	100	100	11	4.4	100	100	4.4	B7G	P
18FY6A	412 398 600		18	1	100		.6	1.3	100		1.4	B7G	DDT
18FX6	412 365 100		18		100	100	24	7	100	100		B7G	O
18FX6A	412 365 100		18		100	100	24	7	100	100		B7G	O
19CL8	461 237 514	A ₁	18.9	{	0.85	125	15	8	100	60	8	B9A	TP
				1	125	125	12	5.8	100	100	5		
19EA8	645 237 114		18.9	{	1.0	150	18	8.5	100	60	8	B9A	TP
				1.0	125	125	12	6.4	100	100			
19EZ8	144 127 464		18.9	1.0	125		4.2	4.2	100		4.2	B9A	TT
22BH3	*8* 23* 8*1	A ₁	22.4				180		REC		40mA	B9A	R
30C17	157 236 414		7.4	{		100	15	8.5	100	60	8	B9A	TP
				.84	175	150	6.4		100	100			
30F27	141 230 651		3.7	1.25	175	150	13.5	15	No data available			B9A	P
30PL14	414 237 516		16	{	7.9	200	10	3.4	100	60	3.4	B9A	TP
32A8	414 237 516	A ₁	32	{	1	100	1	1.9	100	60		B9A	TP
				16	200	200	35	6.4	100	100	7		
35GD5A	142 345 600		34	7.5	100	100	35	5.7	100	100		B7G	P
35FN5	521 441 350		35	22.5	200	150	100	10	No data available			B8A	P
35GL6	142 253 600	A ₁	35	7.5	100	100	45	7.5	100	100		B7G	P
80HK	380 200 000		5				60		REC		15mA	UX4	R
□ 417A	6*2 441 443		6.3	1.5	150		25	25	No data available			B9A	T
3040	652 430 000		0.625	0.75	12.6	12.6	.06	.09				B5A	P
7233	646 236 416		6.3						No data available			B9A	T
7239	41* 235 1*1	A ₁	6.3	5	300	100	10.5	4.2	100	100		B9A	P
7308	641 327 410		6.3	1.4	90		12	11.5	No data available			B9A	TT
7701	141 236 515		13.6	12.5	250	250	28	3.6	100	100		B9A	P
7717	412 365 100		6.3	1	125	80	10	8	100	80		B7G	P
7721	141 23* 615		6.3	10	200	150	22	35	No data available			B9A	P

VALVE	SELECTOR SWITCH No.	T.C.	Vf	DATA FOR VALVE CHARACTERISTIC METER & VALVE TESTER TYPE 160					DATA FOR AVO VALVE TESTER			BASE	TYPE
				Neg. Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Anode Volts	Screen Volts	mA/V		
7722	141 230 615			1	175	150	34	27	No Data Available			B9A	P
7728	641 227 413		6.3	2	250		10	5.5	100		4	B9A	TT
7729	641 227 413		6.3	2	250		1.2	1.6	100		1.2	B9A	TT
7730	641 227 413		6.3	8.5	250		10.5	2.2	100			B9A	TT
7731	641 237 114		6.3	{ 1.0 0.95	150 250		18 10	8.5 5.2	100 100	60 100		B9A	TP
7732	412 365 100		6.3	0.95	125	125	13	8	100	100		B7G	P
7733	141 223 651		6.3	3.0	250	175	24	12	No Data Available			B9A	P
7868	541 234 5*6		6.3	10	300	300	60	10.2	No Data Available			B9A	P
A2792	*4* 23* 1**	A ₁	6.3	1.7	400		1	2.5	100			A08	T
A2900	741 226 413		6.3	2	250		10.5	6.2	100			B9A	TT
CC86E	641 227 413		6.3	9.3	250		14.5	5.2	100		6	B9A	TT
D3A	141 23* 615		6.3	1.0	175	150	26	37	No Data Available			B9A	P
E186F	141 23* 615		6.3	1.4	175	150	11.5	16	No Data Available			B9A	P
EC158	*21 0*0 310	A ₁ G ₁	6.3	4	175		68	15	No Data Available			A08	T
EL36	026 540 310		6.3	4	250	250	72	14.5	100	PenLF 10		A08	P
IW2A	892 300 030		4				30		REC		40mA	B4	RR
KL4G	036 540 200		2	2.5	90	90	4.7	1.8	80	75	2.8	A08	P
M3057	041 230 651		6.3	4.5	200	200	30	9	100	100		B9A	P
M8178	402 013 060		6.3		100		8.5	5.8	100		5.8	B8D	T
Pen45AN	216 540 030		4	8.5	250	250	40	8.8	100	PenLF 8		M08	P
PL300	521 441 350	A ₁	35	22.5	200	150	100	10	No Data Available			B8A	P
Q/U37	023 000 000	D ₁	1.4						D			B3G	D
R20	23* 232 *32	D ₁	2						D			B9A	R
S2P20	601 225 413		5	10	150	150	28	4.4	100	100		B9A	P
S6F33	412 361 500		6.3	3.3	200	200	7.1	4	100	100		B7G	P
SI9G6	*12 3** *00	D ₁	4				30		REC		15mA	B7G	R
SI9G6F	*12 3** *00	D ₁	4				30		REC		15mA	B7G	R
TH232	645 231 700		23	{ 3	75 150	100	4.5 3		100 100	60 100		B7	TH
U27	002 300 000	D ₁	4				30		REC		15mA	B4	R
U60	*2* *** 3*0	D ₁	6.3						D			A08	D
U77	*20 809 020		5				180		REC			A08	RR
X25	265 461 300		1.4	1.5	75	50	1.0	0.4	80	60	0.4	B7G	H
Z22	041 230 500	A ₁	2		150	125	2.5	1.4	100	100		B7	P
Z22Met	041 230 500	A ₁	2		150	125	2.5	1.4	100	100		B7	P

